



ATG GTA CGT AGC TCC TCT CGC ACT CCG TCC GAT AAG CCG GTT GCT
M V R S S S R T P S D K P V A

CAT GTA GTT GCT AAC CCT CAG GCA GAA GGT CAG CTG CAG TGG CTG
H V V A N P Q A E G Q L Q W L

AAC CGT CGC GCT AAC GCC CTG CTG GCA AAC GGC GTT GAG CTC CGT
N R R A N A L L A N G V E L R

GAT AAC CAG CTC GTG GTA CCT TCT GAA GGT CTG TAC CTG ATC TAT
D N Q L V V P S E G L Y L I Y

TCT CAA GTA CTG TTC AAG GGT CAG GGC TGC CCG TCG ACT CAT GTT
S Q V L F K G Q G C P S T H V

CTG CTG ACT CAC ACC ATC AGC CGT ATT GCT GTA TCT TAC CAG ACC
L L T H T I S R I A V S Y Q T

AAA GTT AAC CTG CTG AGC GCT ATC AAG TCT CCG TGC CAG CGT GAA
K V N L L S A I K S P C Q R E

ACT CCC GAG GGT GCA GAA GCG AAA CCA TGG TAT GAA CCG ATC TAC
T P E G A E A K P W Y E P I Y

CTG GGT GGC GTA TTT CAA CTG GAG AAA GGT GAC CGT CTG TCC GCA
L G G V F Q L E K G D R L S A

GAA ATC AAC CGT CCT GAC TAT CTA GAT TTC GCT GAA TCT GGC CAG
E I N R P D Y L D F A E S G Q

GTG TAC TTC GGT ATT ATC GCA CTG TAA
V Y F G I I A L *

FIG. 1

DERIVATION OF THE VNP20009(*serC*⁻) STRAIN:

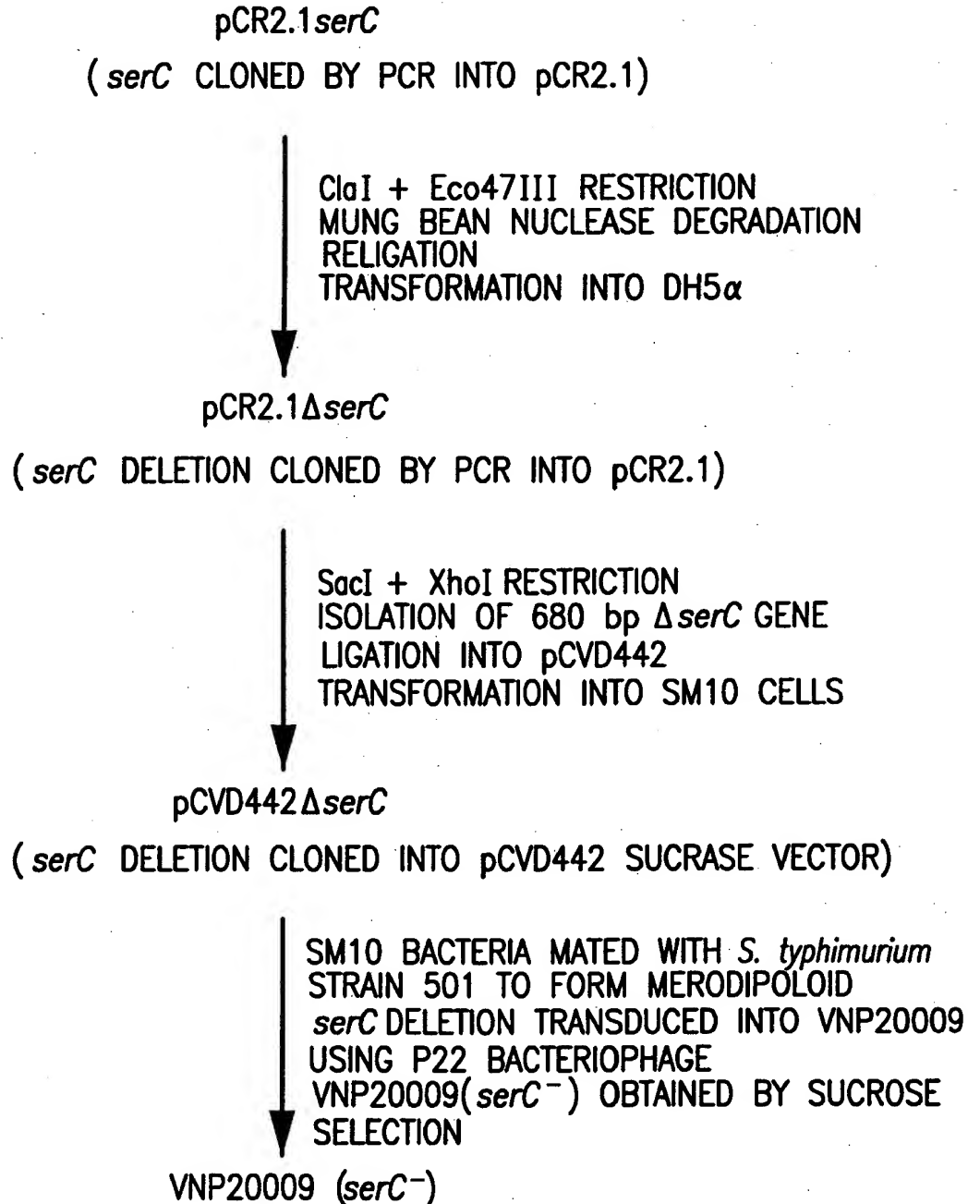


FIG.2

Quantitation of TNF α expression by pTS-BrpTNF α Clone 2.

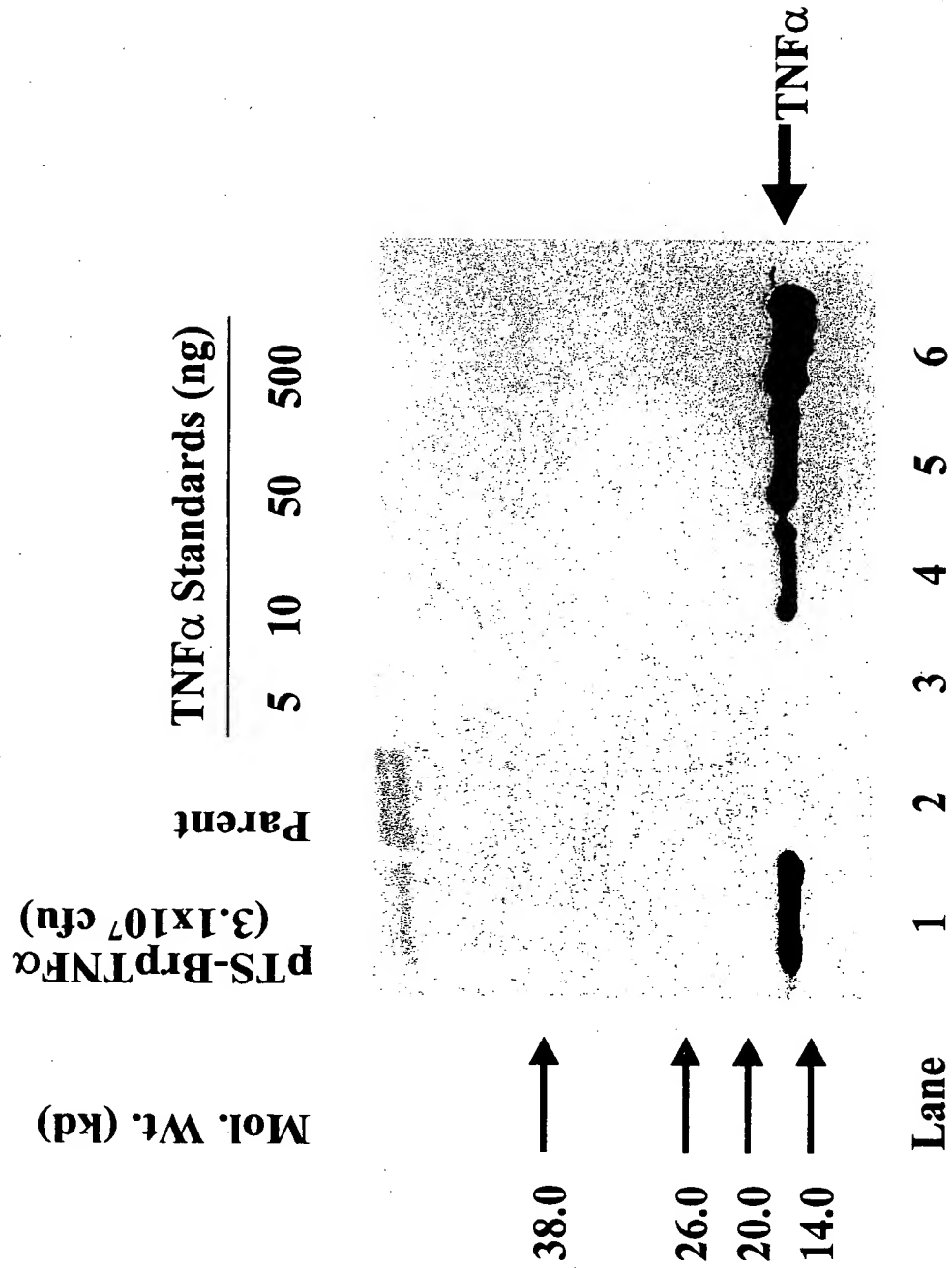


FIG.3

ATG AAA AAG ACA GCT ATC GCG ATT GCA GTG GCA CTG GCT GGT TTC
 M K K T A I A I A V A L A G F

 GCT ACC GTA GCG CAG GCC CAT ATG GTA CGT AGC TCC TCT CGC ACT
 A T V A Q A H M V R S S S R T

 CCG TCC GAT AAG CCG GTT GCT CAT GTA GTT GCT AAC CCT CAG GCA
 P S D K P V A H V V A N P Q A

 GAA GGT CAG CTG CAG TGG CTG AAC CGT CGC GCT AAC GCC CTG CTG
 E G Q L Q W L N R R A N A L L

 GCA AAC GGC GTT GAG CTC CGT GAT AAC CAG CTC GTG GTA CCT TCT
 A N G V E L R D N Q L V V P S

 GAA GGT CTG TAC CTG ATC TAT TCT CAA GTA CTG TTC AAG GGT CAG
 E G L Y L I Y S Q V L F K G Q

 GGC TGC CCG TCG ACT CAT GTT CTG CTG ACT CAC ACC ATC AGC CGT
 G C P S T H V L L T H T I S R

 ATT GCT GTA TCT TAC CAG ACC AAA GTT AAC CTG CTG AGC GCT ATC
 I A V S Y Q T K V N L L S A I

 AAG TCT CCG TGC CAG CGT GAA ACT CCC GAG GGT GCA GAA GCG AAA
 K S P C Q R E T P E G A E A K

 CCA TGG TAT GAA CCG ATC TAC CTG GGT GGC GTA TTT CAA CTG GAG
 P W Y E P I Y L G G V F Q L E

 AAA GGT GAC CGT CTG TCC GCA GAA ATC AAC CGT CCT GAC TAT CTA
 K G D R L S A E I N R P D Y L

 GAT TTC GCT GAA TCT GGC CAG GTG TAC TTC GGT ATT ATC GCA CTG
 D F A E S G Q V Y F G I I A L

 TAA
 *

FIG.4

Expression and processing of a *trc* promoter-driven *ompA*-TRAIL fusion gene product in JM109 bacteria.

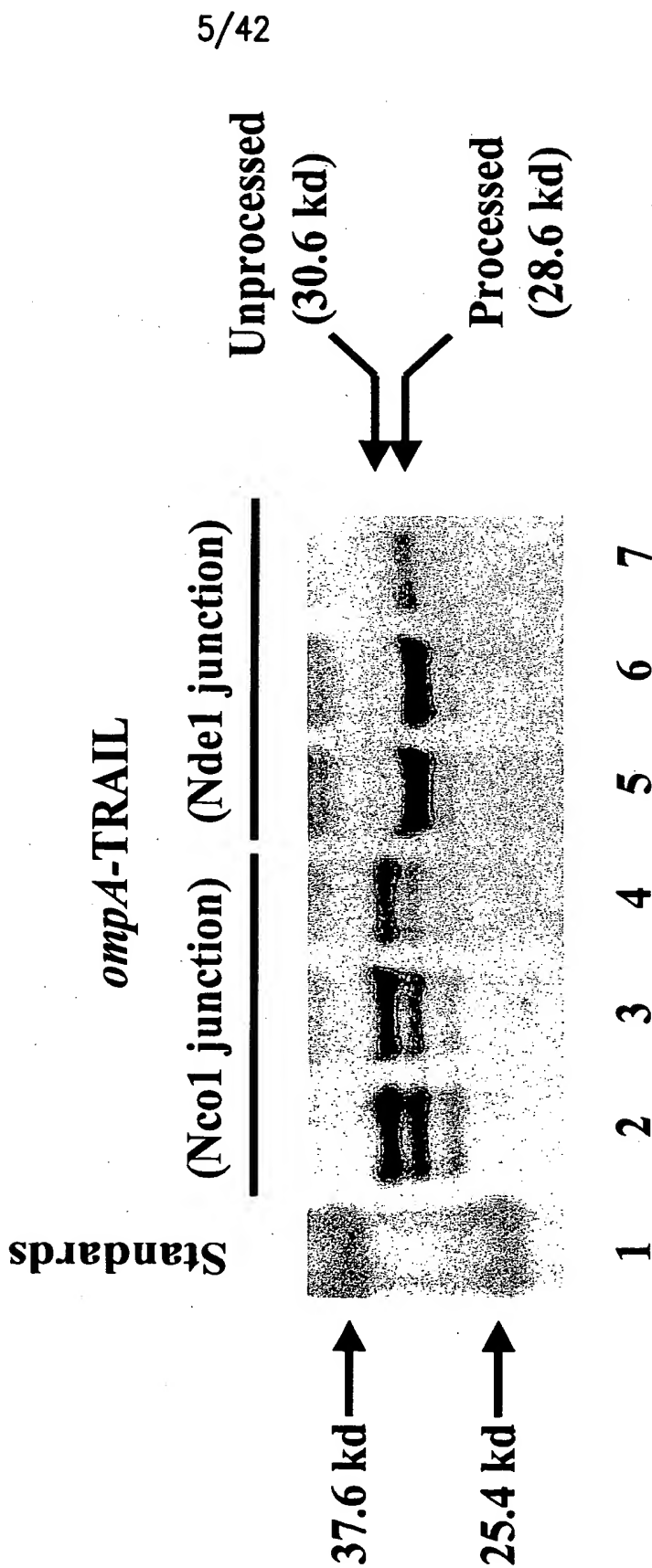


FIG.5

ATG	AAA	AAG	ACA	GCT	ATC	GCG	ATT	GCA	GTG	GCA	CTG	GCT	GGT	TTC
M	K	K	T	A	I	A	I	A	V	A	L	A	G	F
GCT	ACC	GTA	GCG	CAG	GCC	CAT	ATG	GCT	AAC	GAG	CTG	AAG	CAG	ATG
A	T	V	A	Q	A	H	M	A	N	E	L	K	Q	M
CAG	GAC	AAG	TAC	TCC	AAA	AGT	GGC	ATT	GCT	TGT	TTC	TTA	AAA	GAA
Q	D	K	Y	S	K	S	G	I	A	C	F	L	K	E
GAT	GAC	AGT	TAT	TGG	GAC	CCC	AAT	GAC	GAA	GAG	AGT	ATG	AAC	AGC
D	D	S	Y	W	D	P	N	D	E	E	S	M	N	S
CCC	TGC	TGG	CAA	GTC	AAG	TGG	CAA	CTC	CGT	CAG	CTC	GTT	AGA	AAG
P	C	W	Q	V	K	W	Q	L	R	Q	L	V	R	K
ATG	ATT	TTG	AGA	ACC	TCT	GAG	GAA	ACC	ATT	TCT	ACA	GTT	CAA	GAA
M	I	L	R	T	S	E	E	T	I	S	T	V	Q	E
AAG	CAA	CAA	AAT	ATT	TCT	CCC	CTA	GTG	AGA	GAA	AGA	GGT	CCT	CAG
K	Q	Q	N	I	S	P	L	V	R	E	R	G	P	Q
AGA	GTA	GCA	GCT	CAC	ATA	ACT	GGG	ACC	AGA	GGA	AGA	AGC	AAC	ACA
R	V	A	A	H	I	T	G	T	R	G	R	S	N	T
TTG	TCT	TCT	CCA	AAC	TCC	AAG	AAT	GAA	AAG	GCT	CTG	GGC	CGC	AAA
L	S	S	P	N	S	K	N	E	K	A	L	G	R	K
ATA	AAC	TCC	TGG	GAA	TCA	TCA	AGG	AGT	GGG	CAT	TCA	TTC	CTG	AGC
I	N	S	W	E	S	S	R	S	G	H	S	F	L	S
AAC	TTG	CAC	TTG	AGG	AAT	GGT	GAA	CTG	GTC	ATC	CAT	GAA	AAA	GGG
N	L	H	L	R	N	G	E	L	V	I	H	E	K	G
TTT	TAC	TAC	ATC	TAT	TCC	CAA	ACA	TAC	TTT	CGA	TTT	CAG	GAG	GAA
F	Y	Y	I	Y	S	Q	T	Y	F	R	F	Q	E	E
ATA	AAA	GAA	AAC	ACA	AAG	AAC	GAC	AAA	CAA	ATG	GTC	CAA	TAT	ATT
I	K	E	N	T	K	N	D	K	Q	M	V	Q	Y	I
TAC	AAA	TAC	ACA	AGT	TAT	CCT	GAC	CCT	ATA	TTG	TTG	ATG	AAA	AGT
Y	K	Y	T	S	Y	P	D	P	I	L	L	M	K	S
GCT	AGA	AAT	AGT	TGT	TGG	TCT	AAA	GAT	GCA	GAA	TAT	GGA	CTC	TAT
A	R	N	S	C	W	S	K	D	A	E	Y	G	L	Y
TCC	ATC	TAT	CAA	GGG	GGA	ATA	TTT	GAG	CTT	AAG	GAA	AAT	GAC	AGA
S	I	Y	Q	G	G	I	F	E	L	K	E	N	D	R
ATT	TTT	GTT	TCT	GTA	ACA	AAT	GAG	CAC	TTG	ATA	GAC	ATG	GAC	CAT
I	F	V	S	V	T	N	E	H	L	I	D	M	D	H
GAA	GCC	AGT	TTT	TTC	GGG	GCC	TTT	TTA	GTT	GGC	TAA			
E	A	S	F	F	G	A	F	L	V	G	*			

FIG.6

Expression and processing of a *trc* promoter-driven *ompA*-TNF α fusion gene product in JM109 bacteria.

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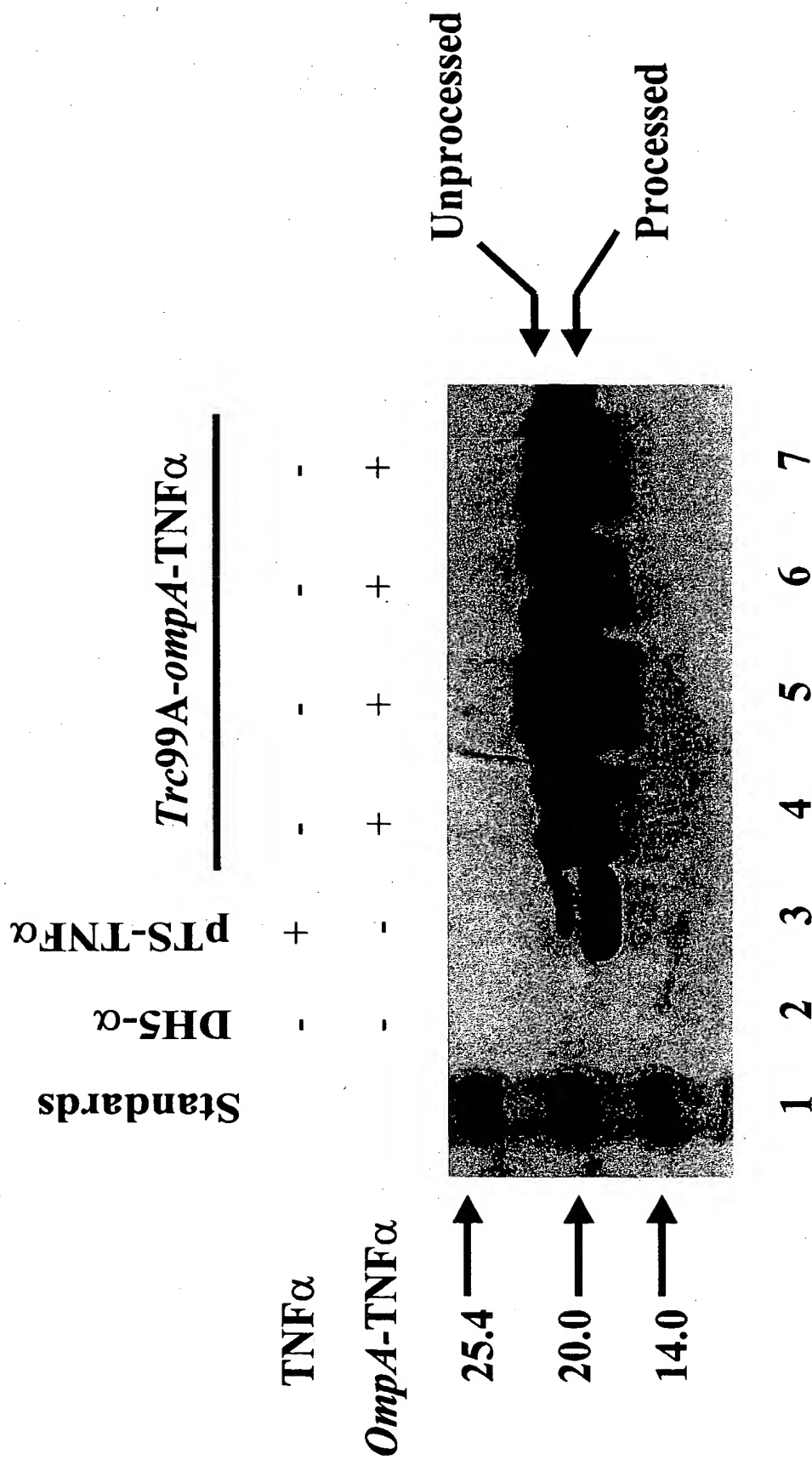


FIG.7

ATG AAA AAG ACG GCT CTG GCG CTT CTG CTC TTG CTG TTA GCG CTG
 M K K T A L A L L L L L L A L

 ACT AGT GTA GCG CAG GCC GCT CCT ACT AGC TCG AGC ACT AAG AAA
 T S V A Q A A P T S S S T K K

 ACT CAA CTG CAA TTG GAG CAT CTG CTG CTG GAT CTG CAG ATG ATT
 T Q L Q L E H L L L D L Q M I

 CTG AAT GGC ATC AAT AAC TAC AAG AAC CCT AAG CTG ACT CGC ATG
 L N G I N N Y K N P K L T R M

 CTG ACT TTC AAA TTC TAC ATG CCG AAA AAG GCT ACC GAG CTC AAA
 L T F K F Y M P K K A T E L K

 CAT CTC CAG TGC CTG GAA GAG GAA CTG AAG CCG CTG GAG GAA GTA
 H L Q C L E E E L K P L E E V

 CTT AAC CTG GCA CAG TCT AAG AAC TTC CAC CTG CGT CCG CGT GAC
 L N L A Q S K N F H L R P R D

 CTG ATC TCC AAC ATC AAT GTA ATC GTT CTT GAG CTG AAG GGA TCC
 L I S N I N V I V L E L K G S

 GAA ACC ACC TTC ATG TGC GAA TAC GCT GAC GAA ACC GCC ACC ATT
 E T T F M C E Y A D E T A T I

 GTG GAG TTC CTG AAC CGT TGG ATC ACC TTT GCC CAA TCG ATC ATT
 V E F L N R W I T F A Q S I I

 AGC ACG TTA ACT TAA
 S T L T *

FIG.8

Periplasmic localization and processing of *ompA*-IL2 fusion proteins.

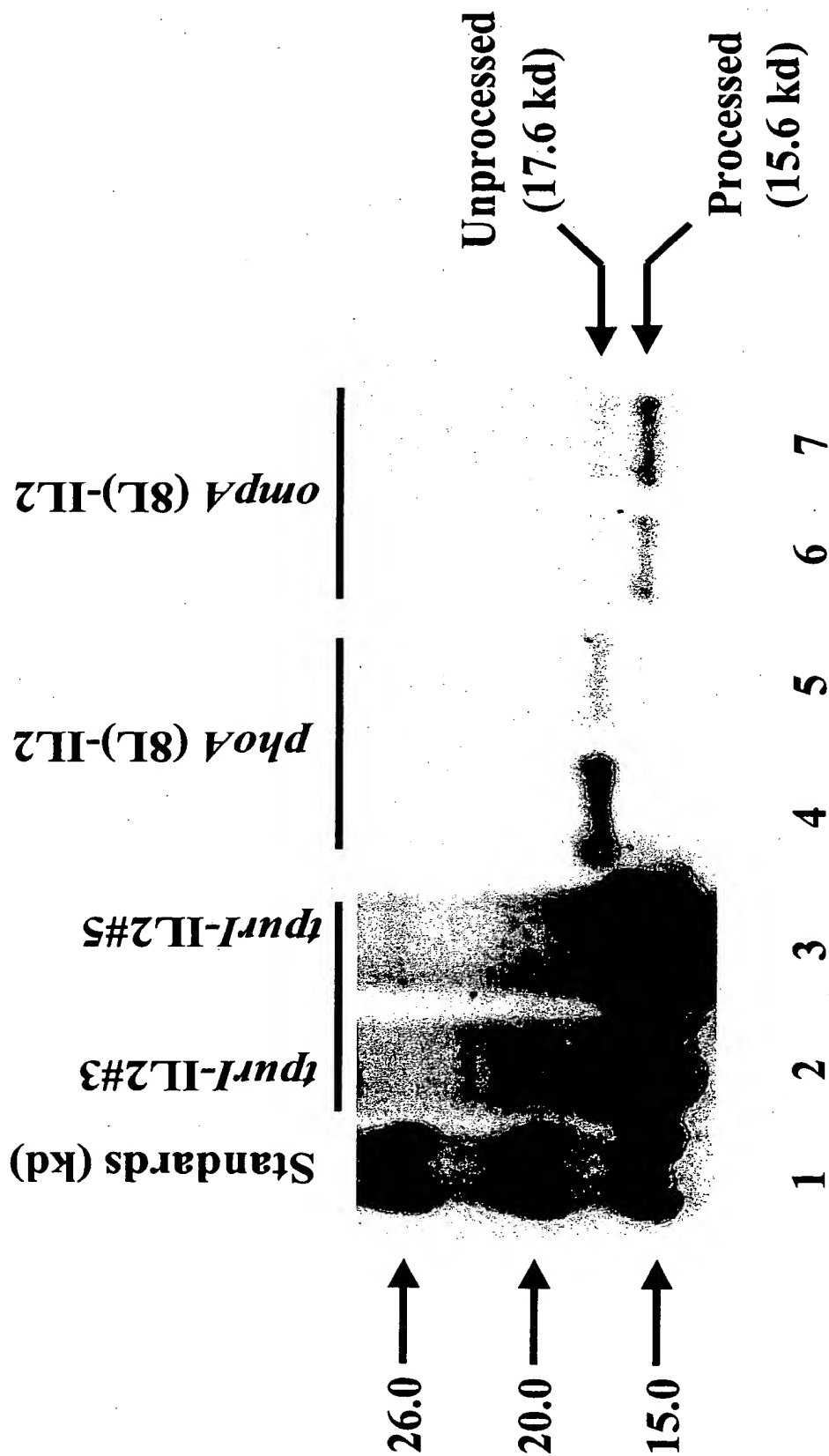


FIG.9

MB85P131

ATG	AAA	CAG	TCG	ACT	CTG	GCG	CTT	CTG	CTC	TTG	CTG	TTA	GCG	CTG
M	K	Q	S	T	L	A	L	L	L	L	L	L	A	L
ACT	AGT	GTG	GCC	AAA	GCG	GCT	CCT	ACT	AGC	TCG	AGC	ACT	AAG	AAA
T	S	V	A	K	A	A	P	T	S	S	S	T	K	K
ACT	CAA	CTG	CAA	TTG	GAG	CAT	CTG	CTG	CTG	GAT	CTG	CAG	ATG	ATT
T	Q	L	Q	L	E	H	L	L	L	D	L	Q	M	I
CTG	AAT	GGC	ATC	AAT	AAC	TAC	AAG	AAC	CCT	AAG	CTG	ACT	CGC	ATG
L	N	G	I	N	N	Y	K	N	P	K	L	T	R	M
CTG	ACT	TTC	AAA	TTC	TAC	ATG	CCG	AAA	AAG	GCT	ACC	GAG	CTC	AAA
L	T	F	K	F	Y	M	P	K	K	A	T	E	L	K
CAT	CTC	CAG	TGC	CTG	GAA	GAG	GAA	CTG	AAG	CCG	CTG	GAG	GAA	GTA
H	L	Q	C	L	E	E	E	L	K	P	L	E	E	V
CTT	AAC	CTG	GCA	CAG	TCT	AAG	AAC	TTC	CAC	CTG	CGT	CCG	CGT	GAC
L	N	L	A	Q	S	K	N	F	H	L	R	P	R	D
CTG	ATC	TCC	AAC	ATC	AAT	GTA	ATC	GTT	CTT	GAG	CTG	AAG	GGA	TCC
L	I	S	N	I	N	V	I	V	L	E	L	K	G	S
GAA	ACC	ACC	TTC	ATG	TGC	GAA	TAC	GCT	GAC	GAA	ACC	GCC	ACC	ATT
E	T	T	F	M	C	E	Y	A	D	E	T	A	T	I
GTG	GAG	TTC	CTG	AAC	CGT	TGG	ATC	ACC	TTT	GCC	CAA	TCG	ATC	ATT
V	E	F	L	N	R	W	I	T	F	A	Q	S	I	I
AGC	ACG	TTA	ACT	TAA										
S	T	L	T	*										

FIG.10

ANTITUMOR EFFICACY OF pTS-BrpTNF α CLONE 2 IN A STAGED COLON 38 TUMOR MODEL.

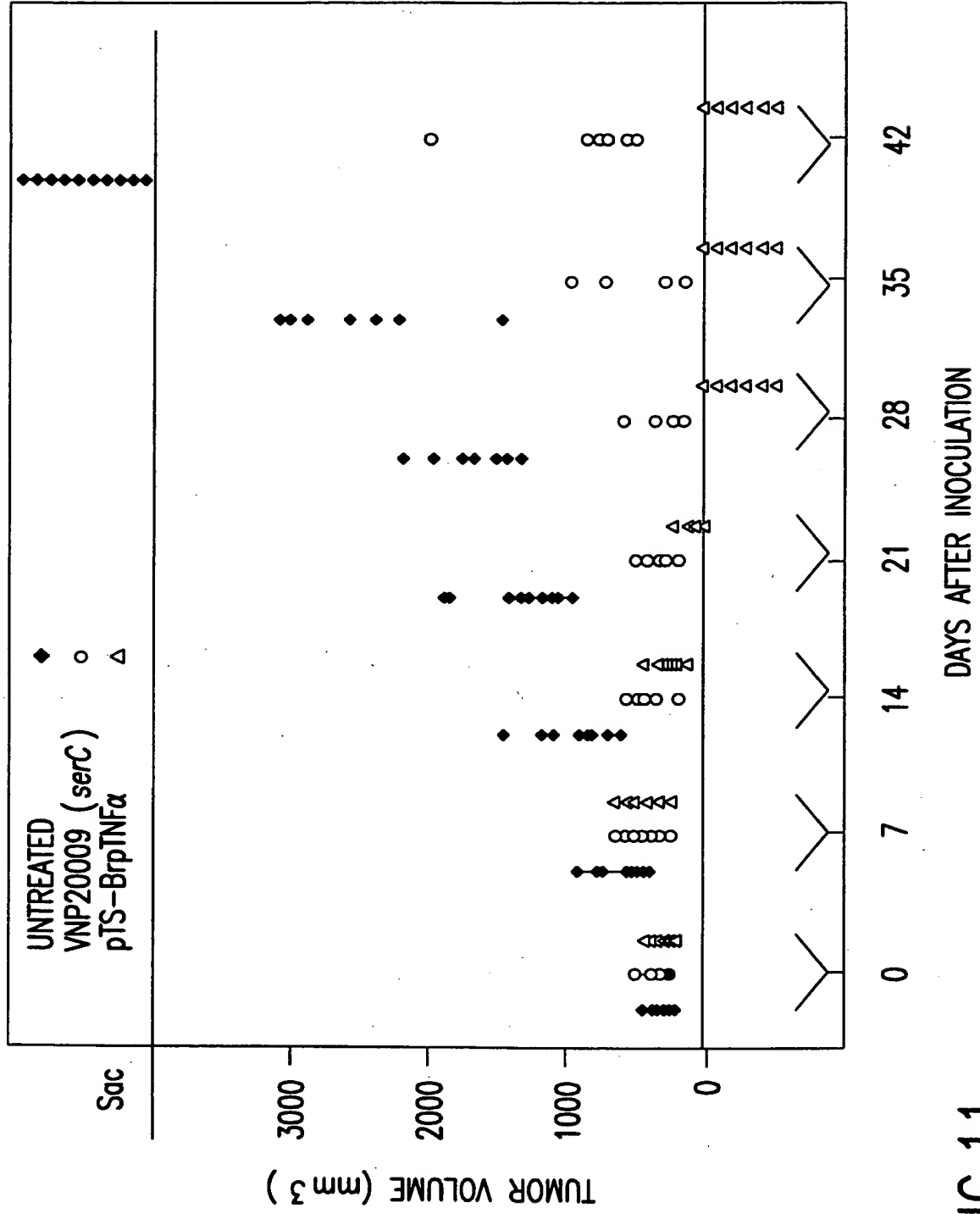


FIG.11

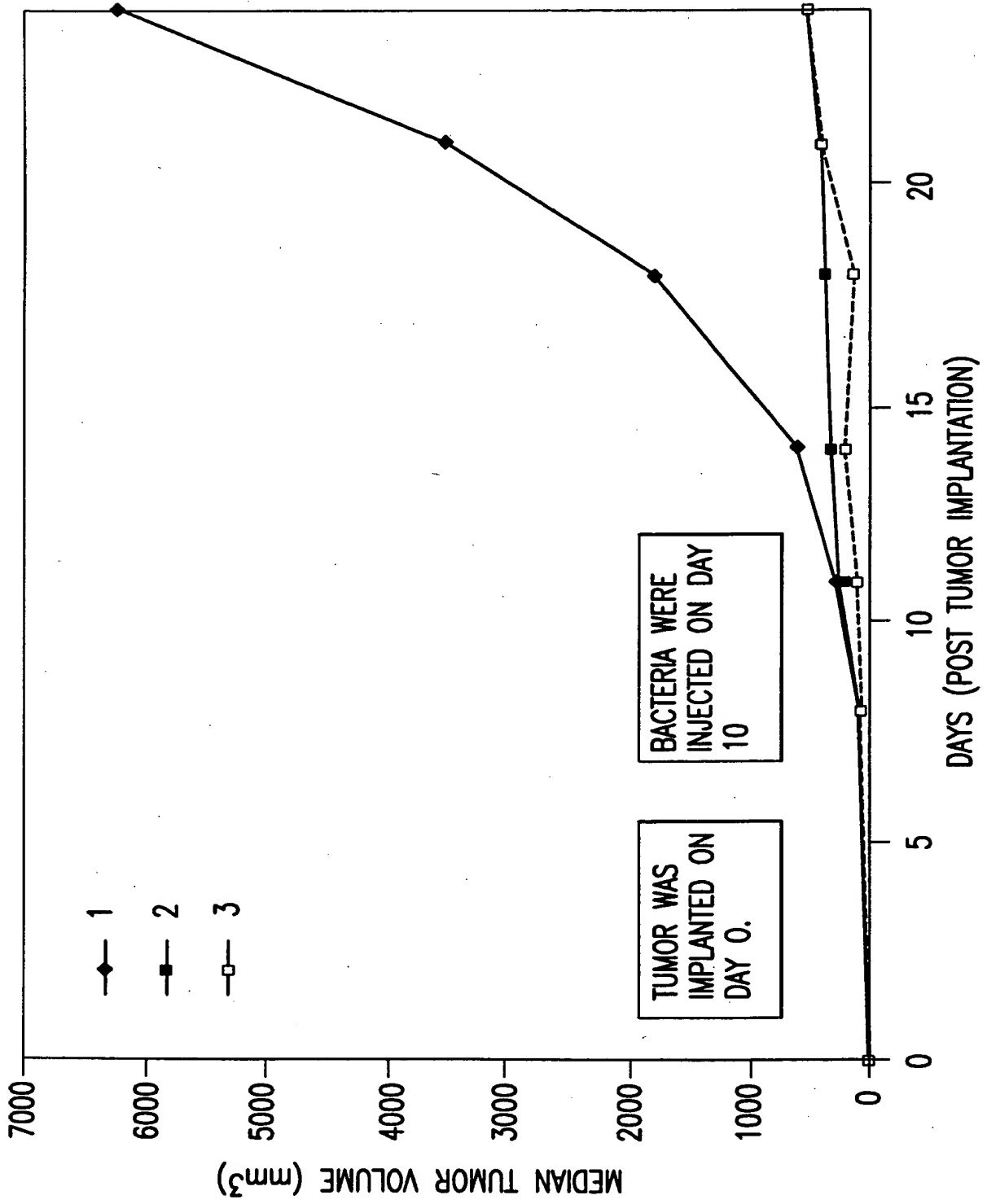


FIG.12

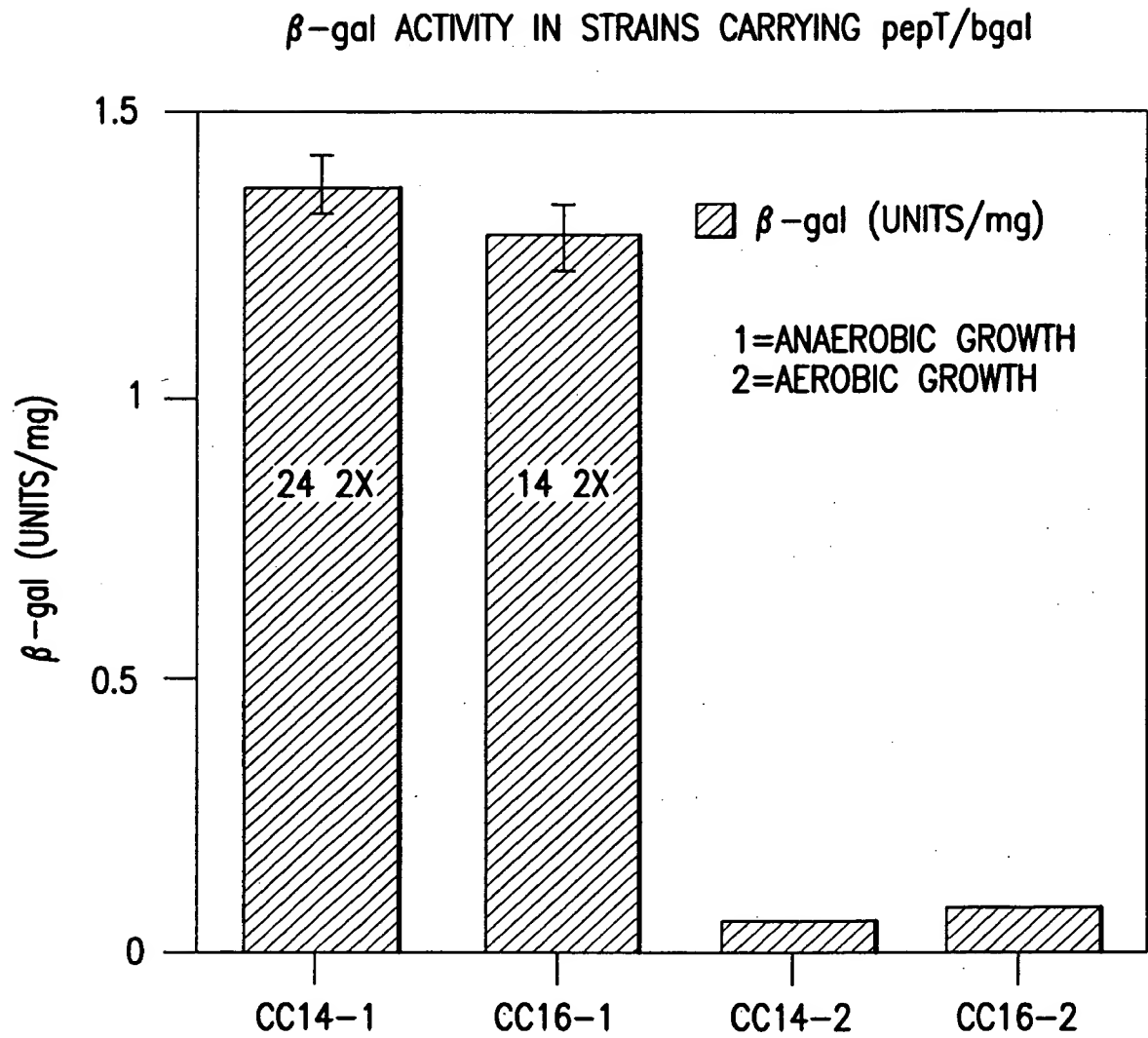


FIG.13A

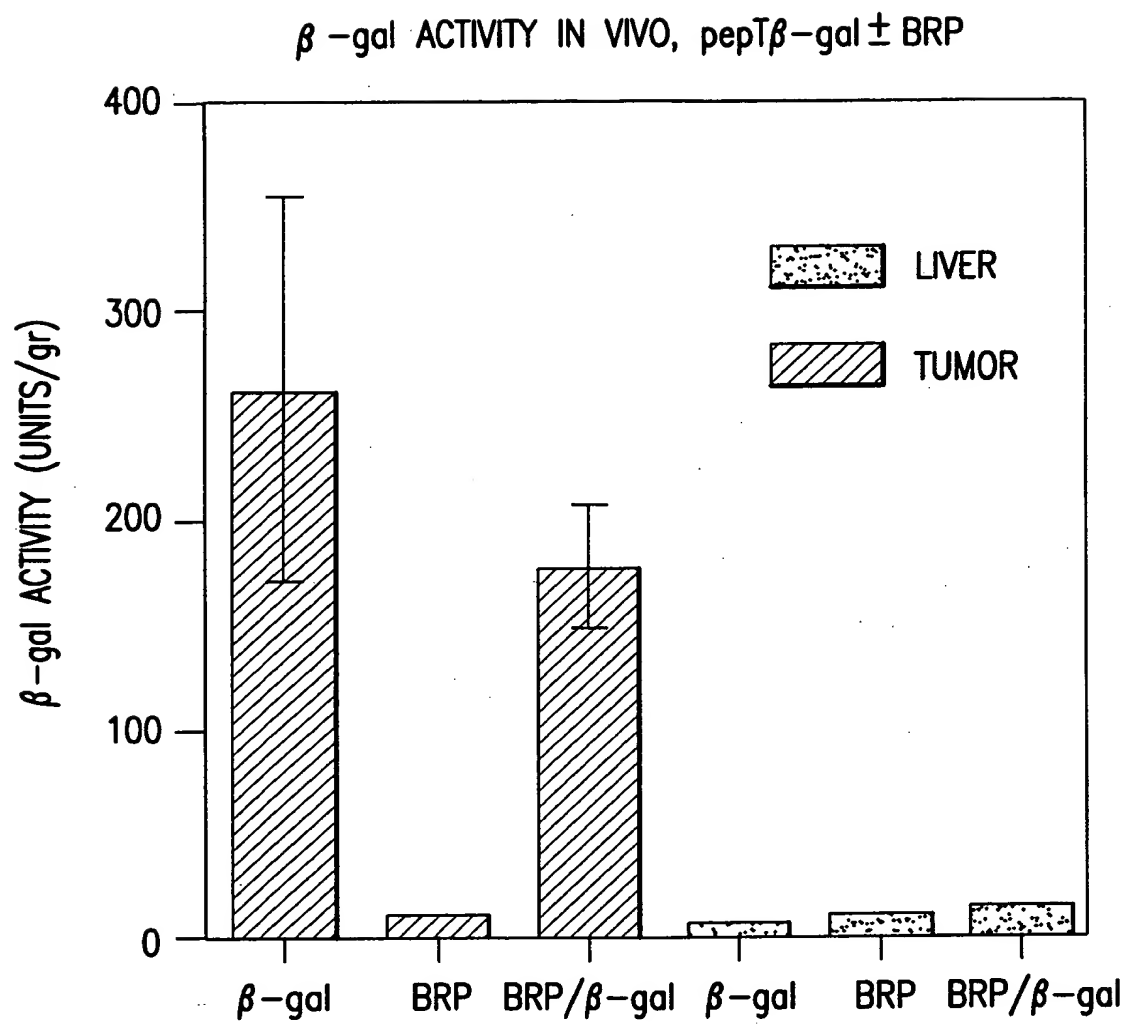


FIG.13B

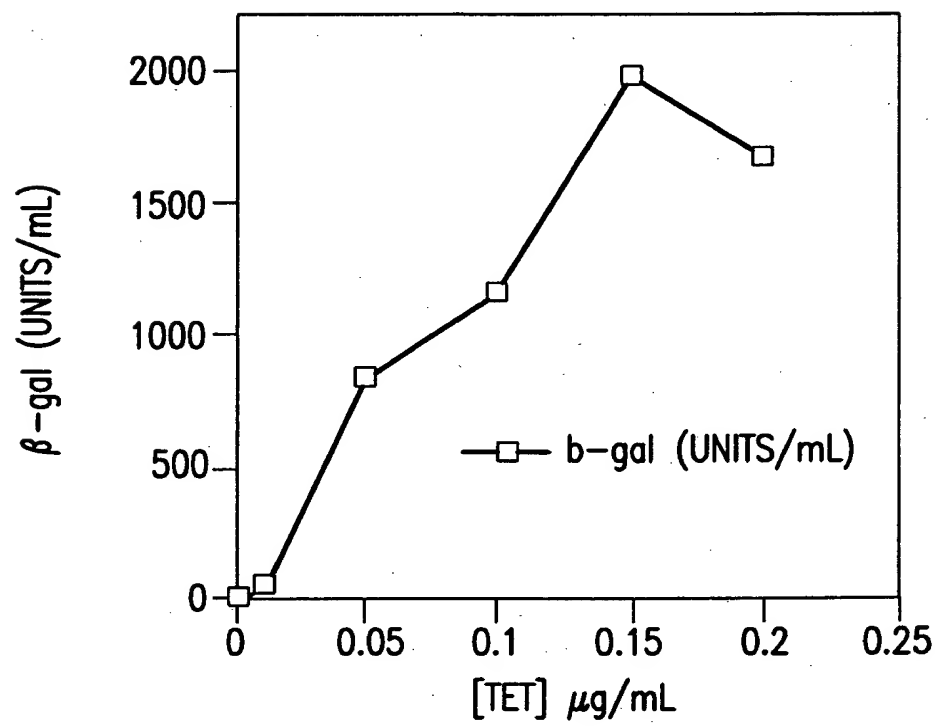
EXPRESSION OF β -gal USING
TET PROMOTER

FIG.14

~25 kD →
HexaHIS-endostatin



+ - + - + -

FIG.15A

~25 kD →
HexaHIS-endostatin



+ - + - + - + - + -

FIG.15B

~25 kD →
HexaHIS-endostatin

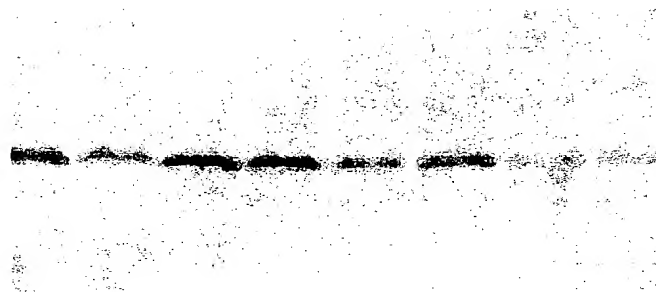


FIG.16

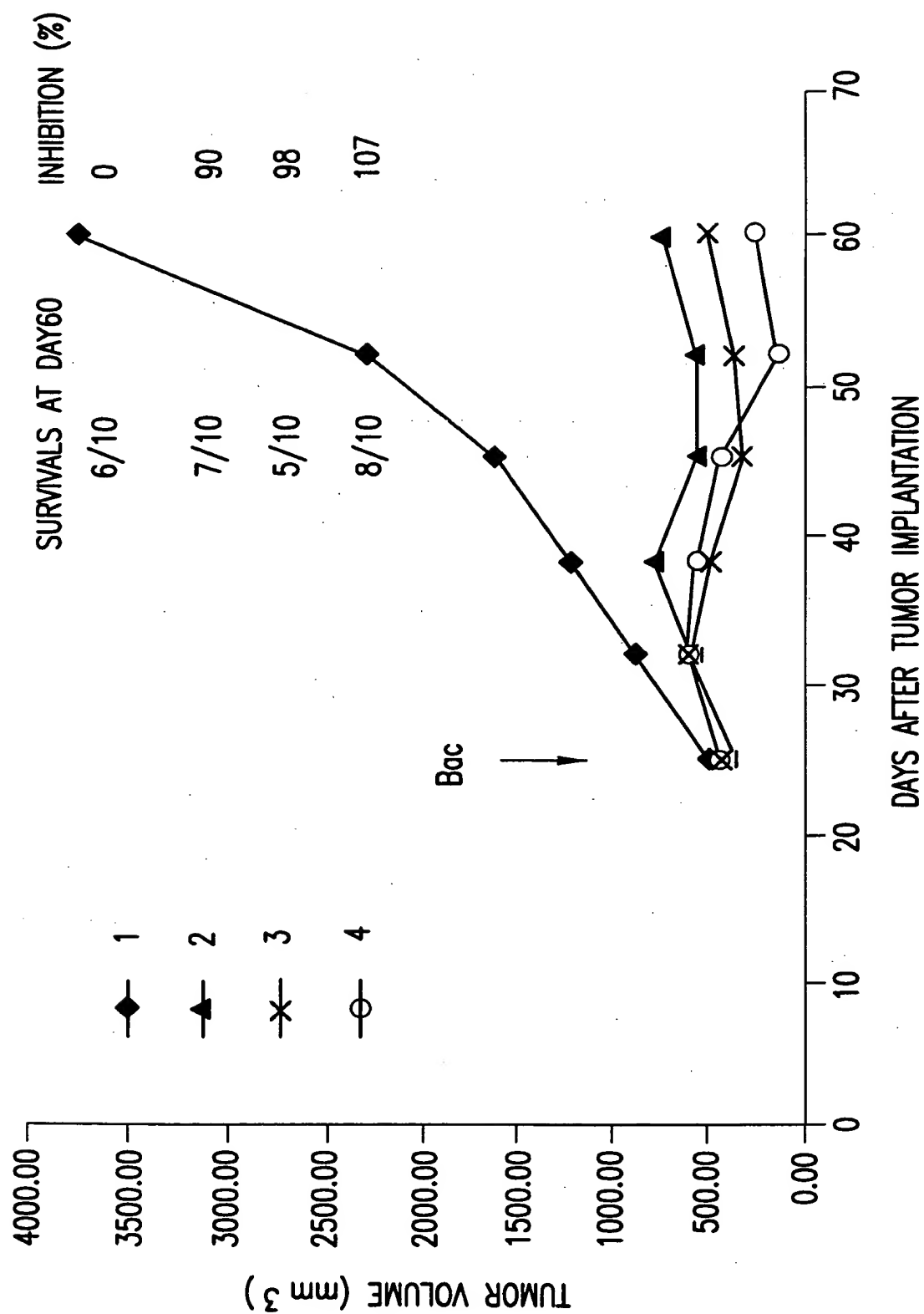


FIG.17

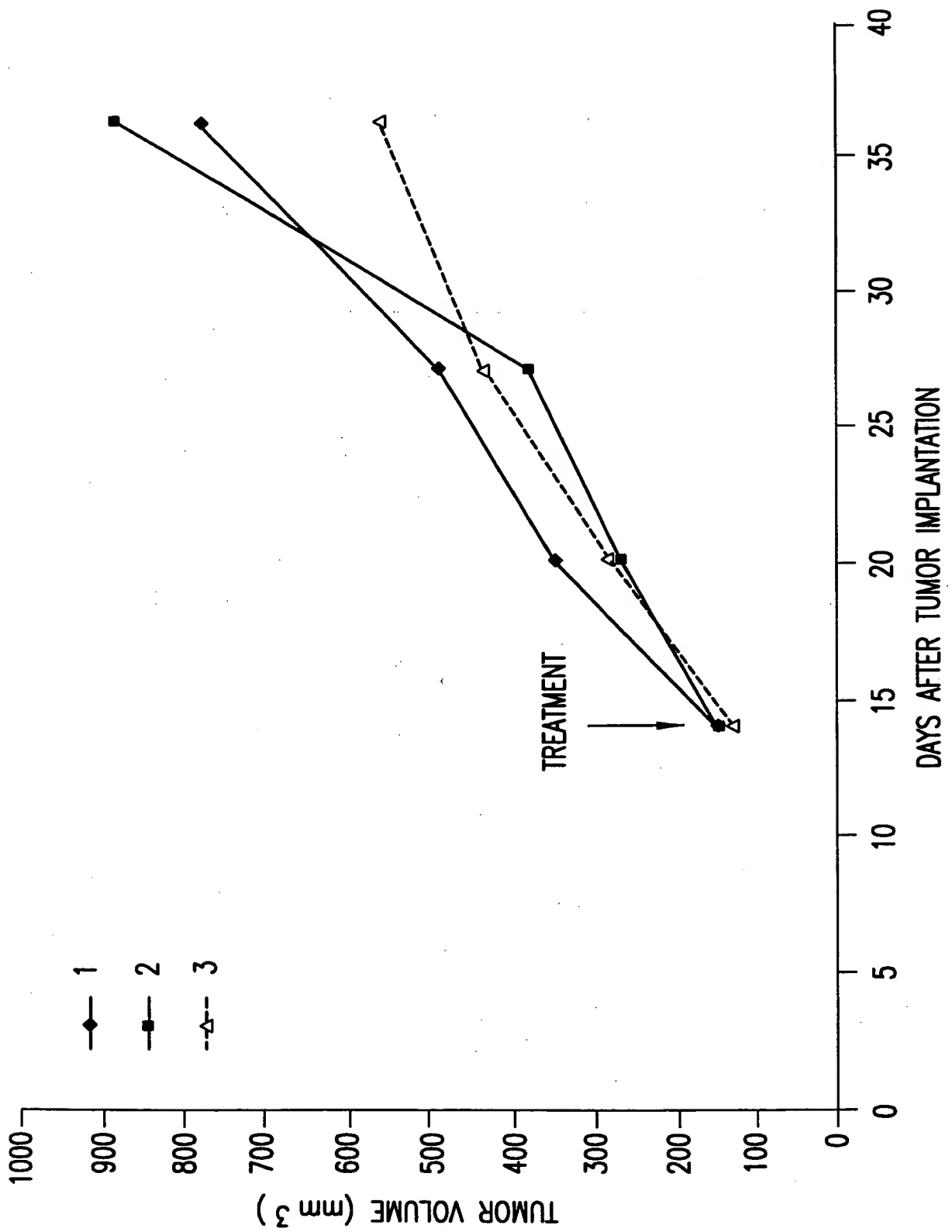


FIG.18

INHIBITORY ACTIVITY OF LYSATES FROM A SALMONELLA STRAIN
EXPRESSING HUMAN ENDOSTATIN

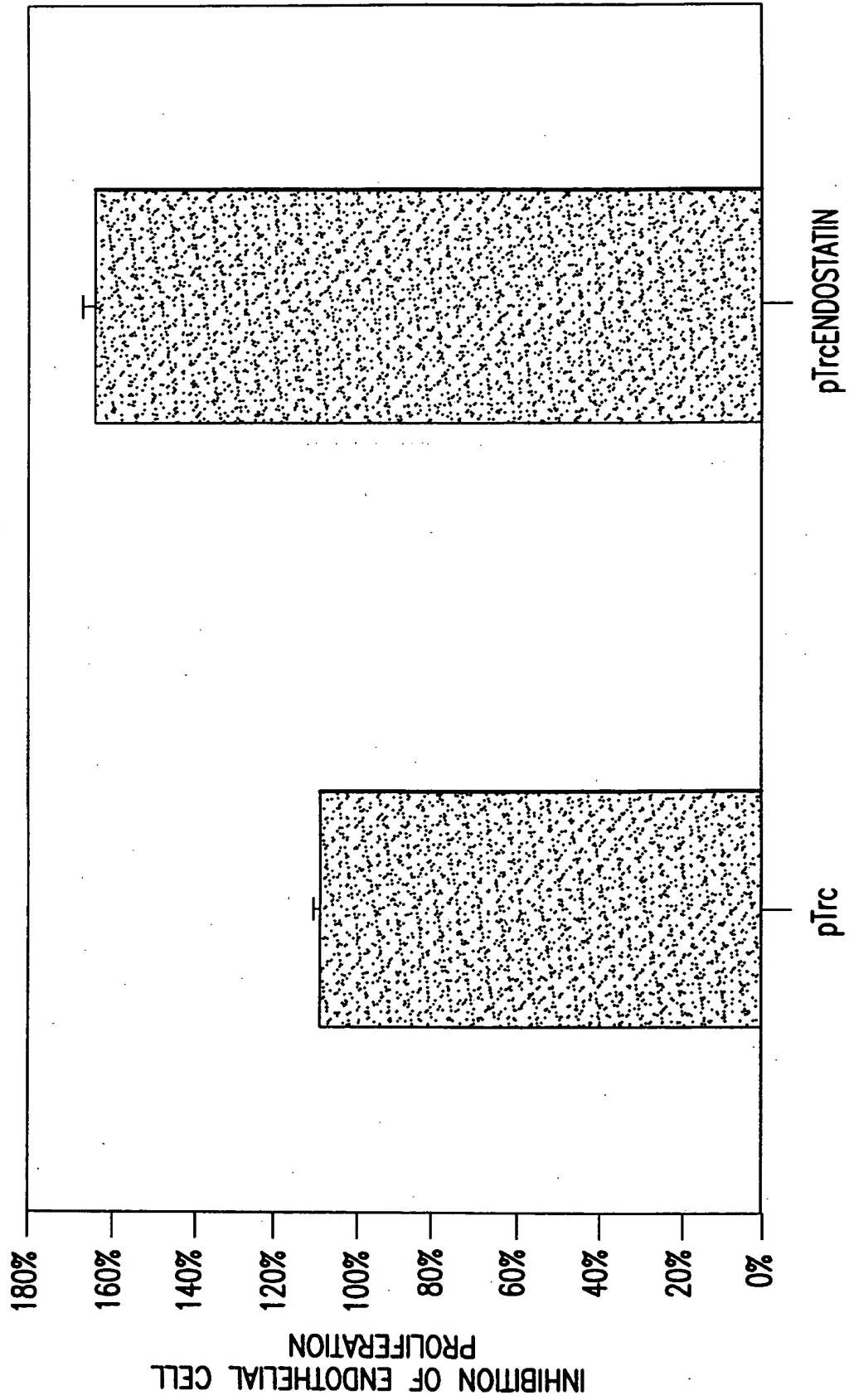


FIG.19

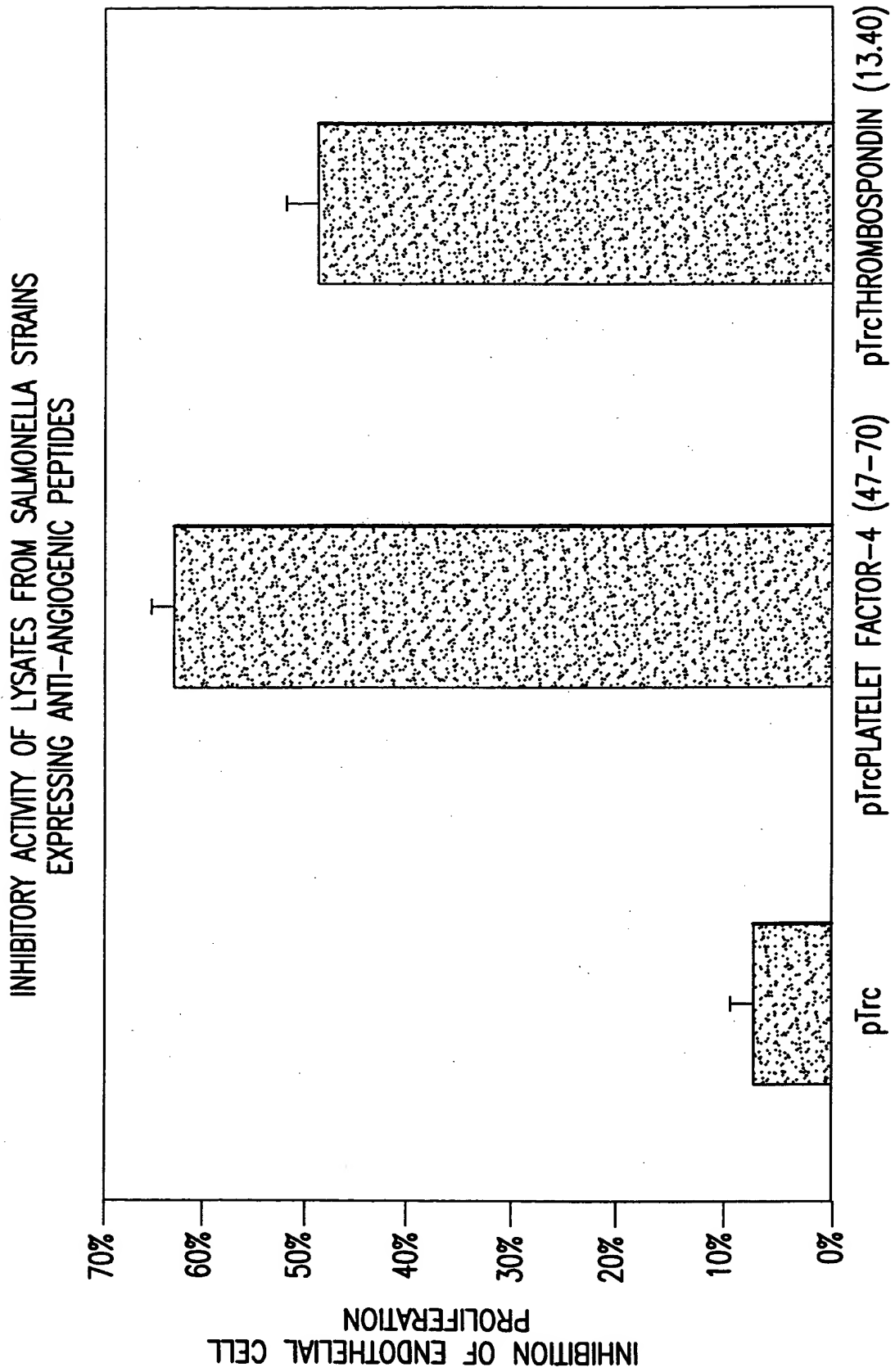


FIG.20

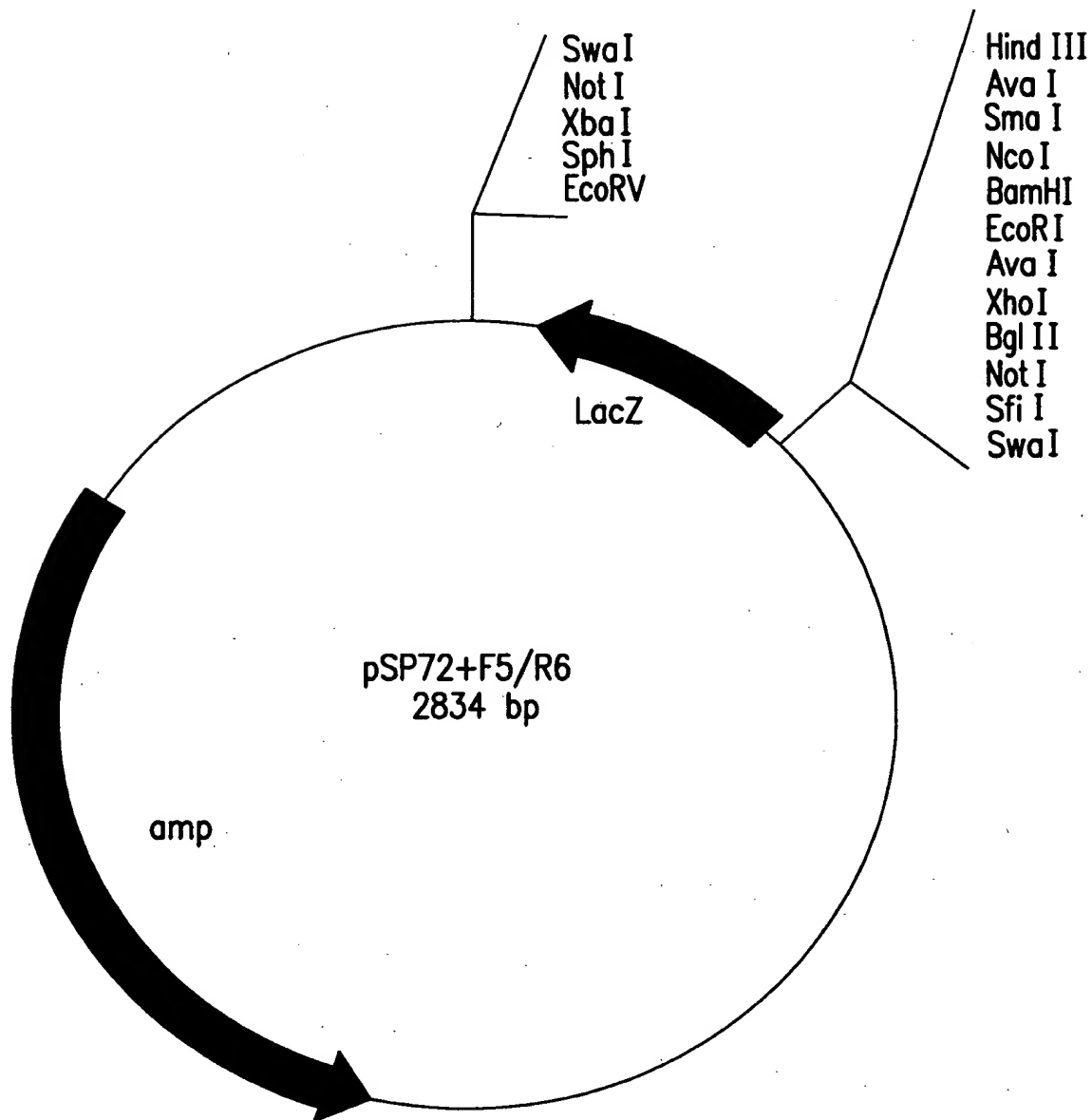


FIG.21

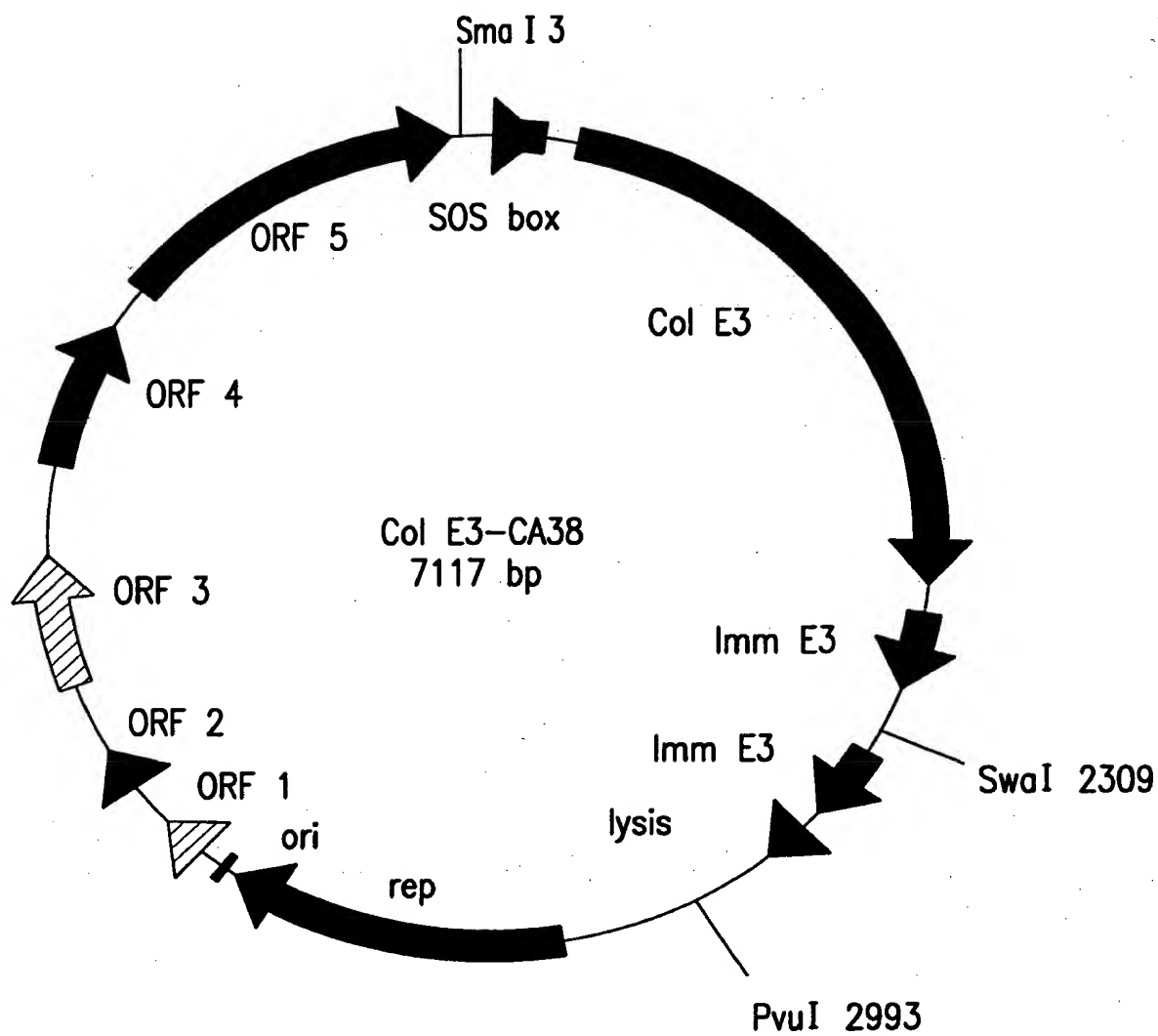


FIG.22

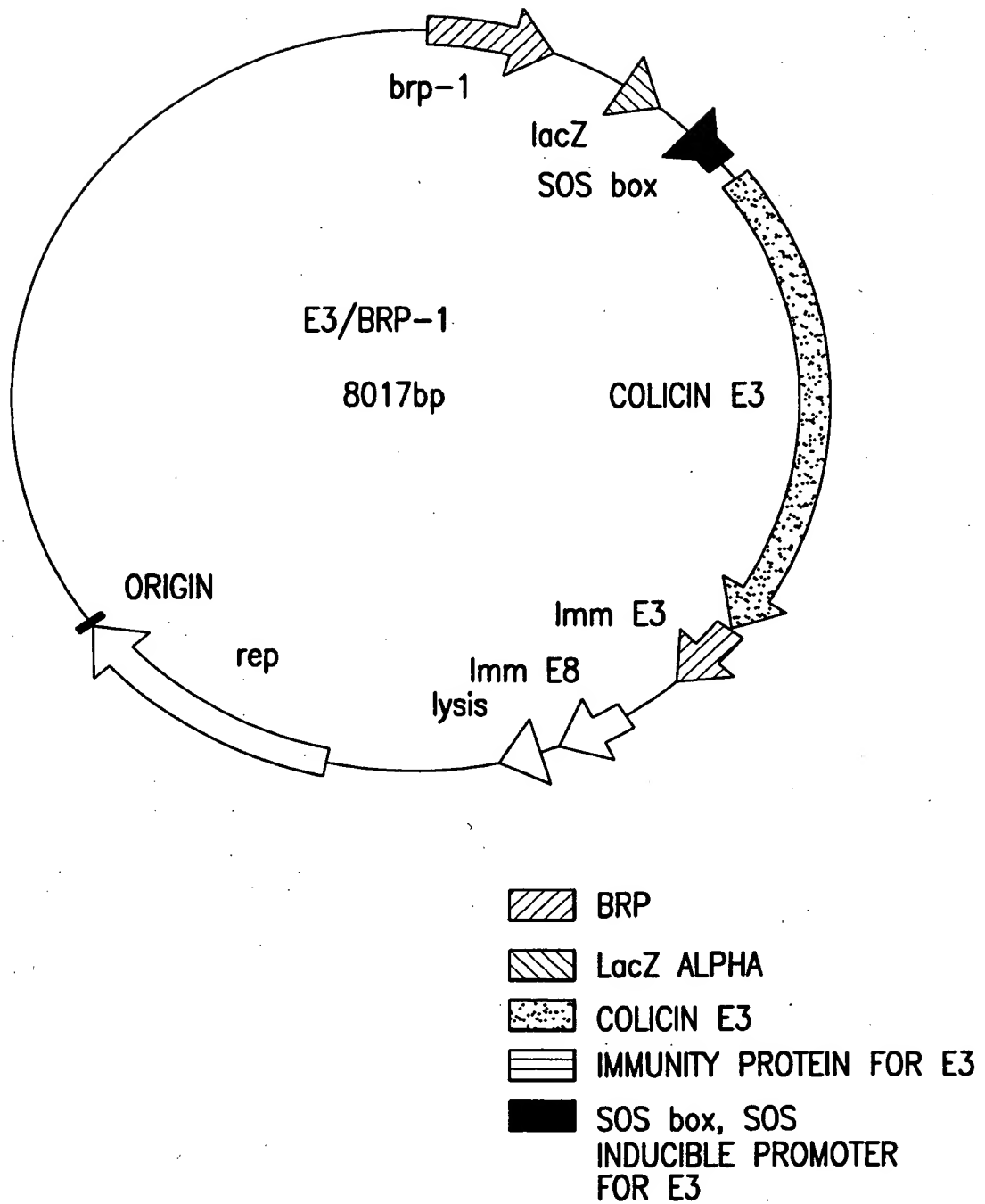


FIG.23

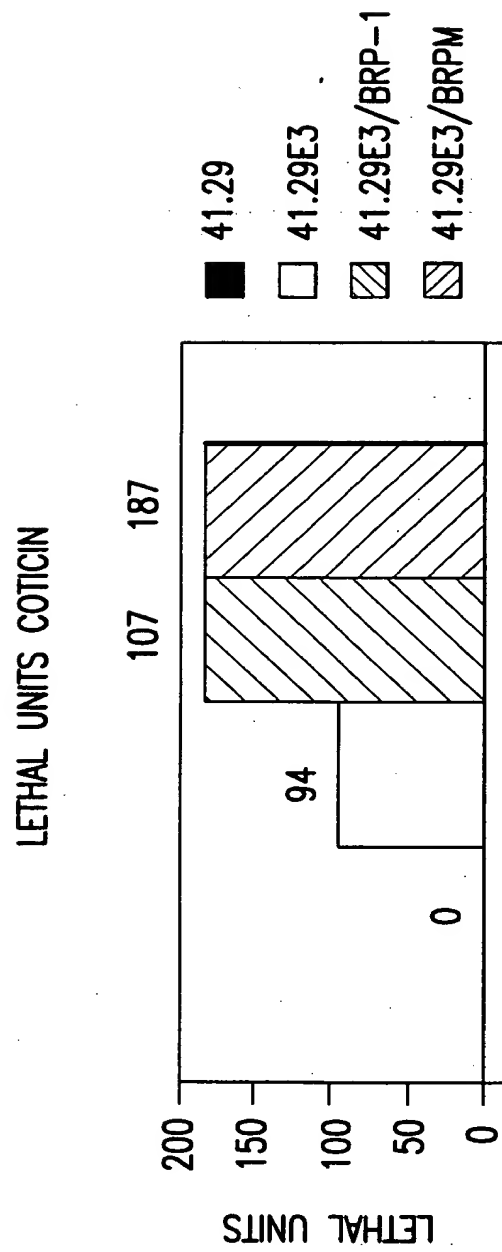


FIG.24

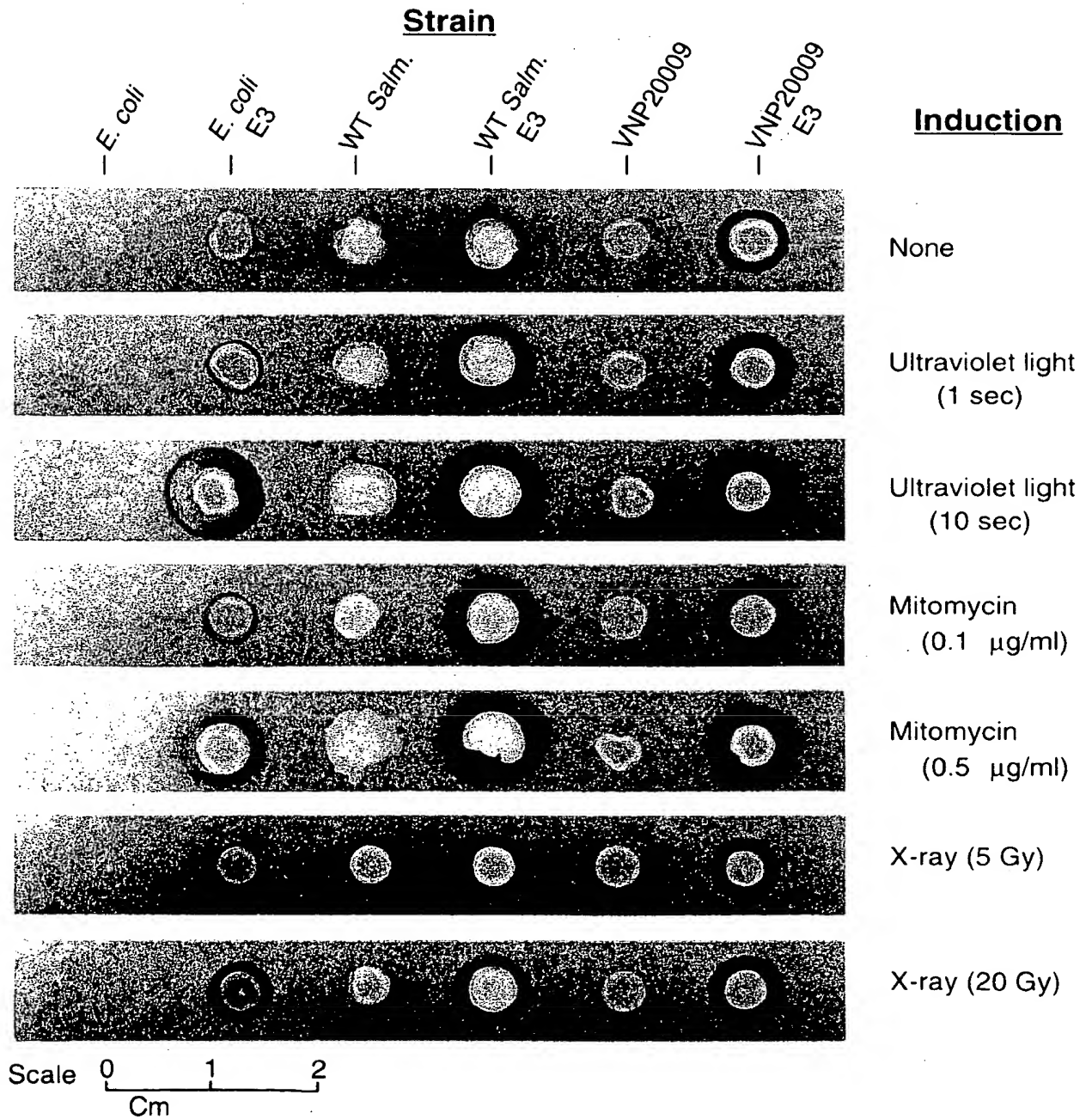


FIG.25

EFFICACY OF 41.2.9/CoIE3 ON C38 MURINE COLON CARCINOMA

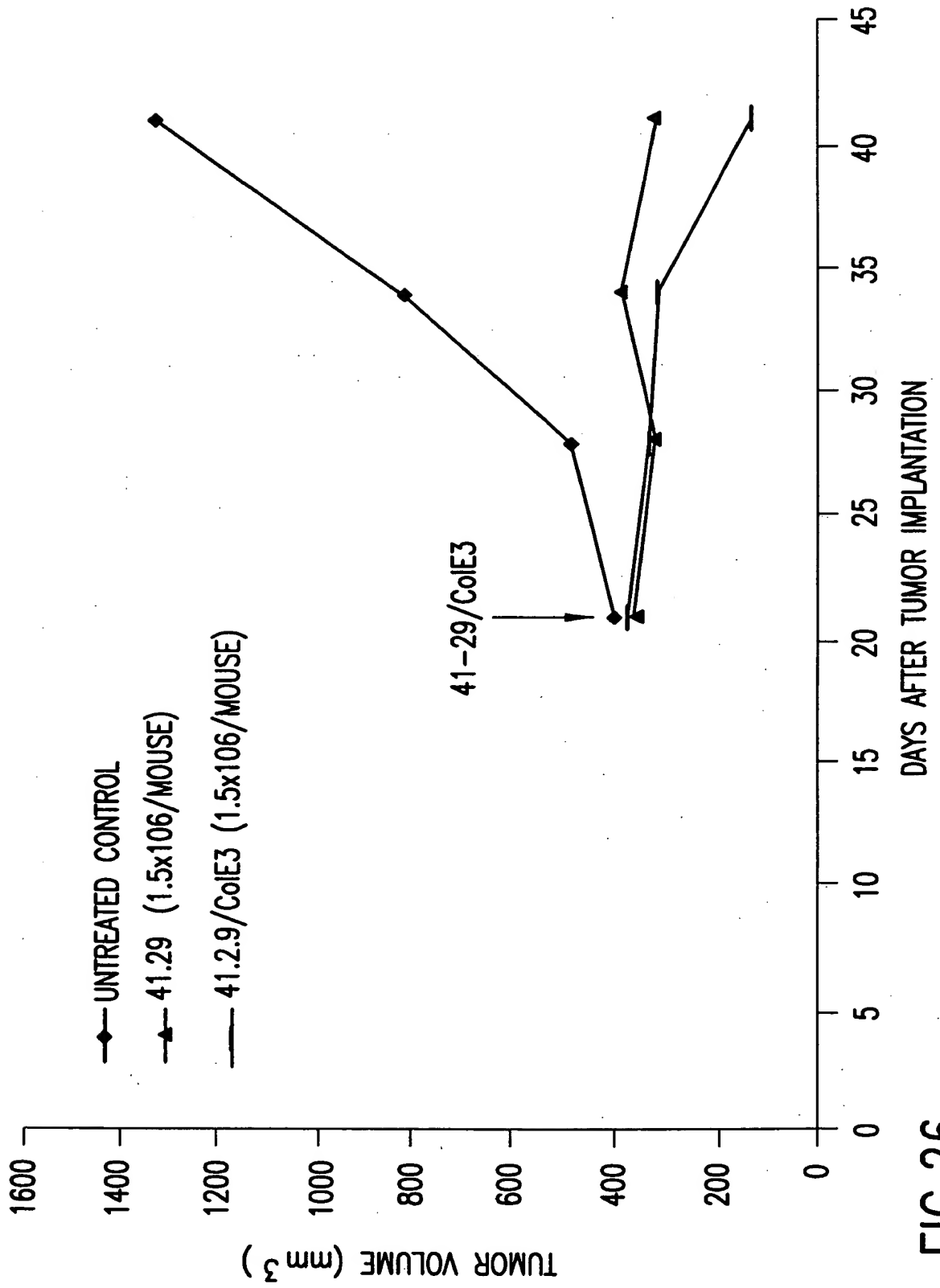


FIG.26

ANTI-TUMOR ACTIVITY OF 41.2.9 / Col/E3 ON DLD1 HUMAN COLON CARCINOMA IN
Nu/Nu MICE

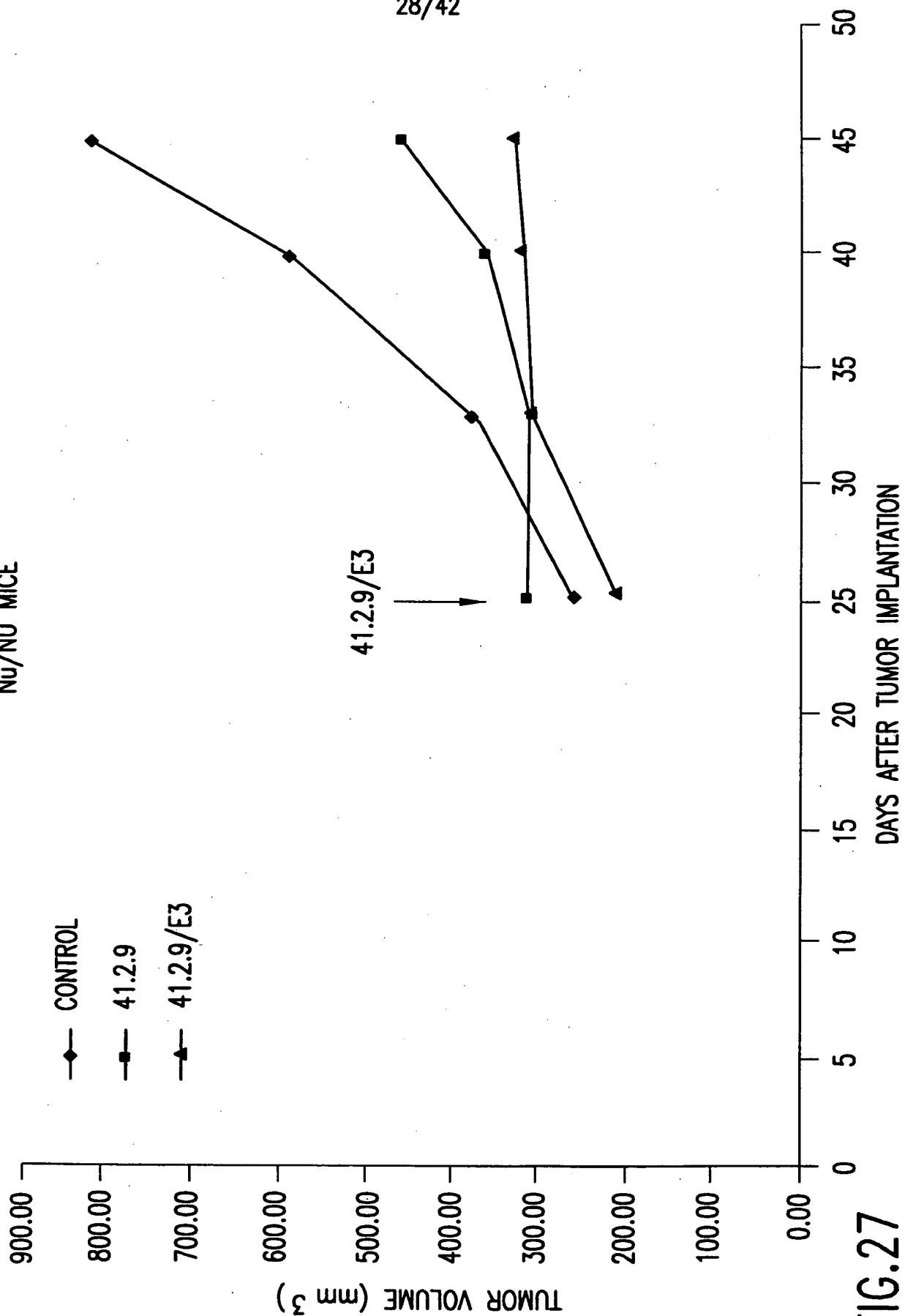


FIG.27

EFFICACY OF 41.2.9/CoIE3 ON B16 MURINE MELANOMA

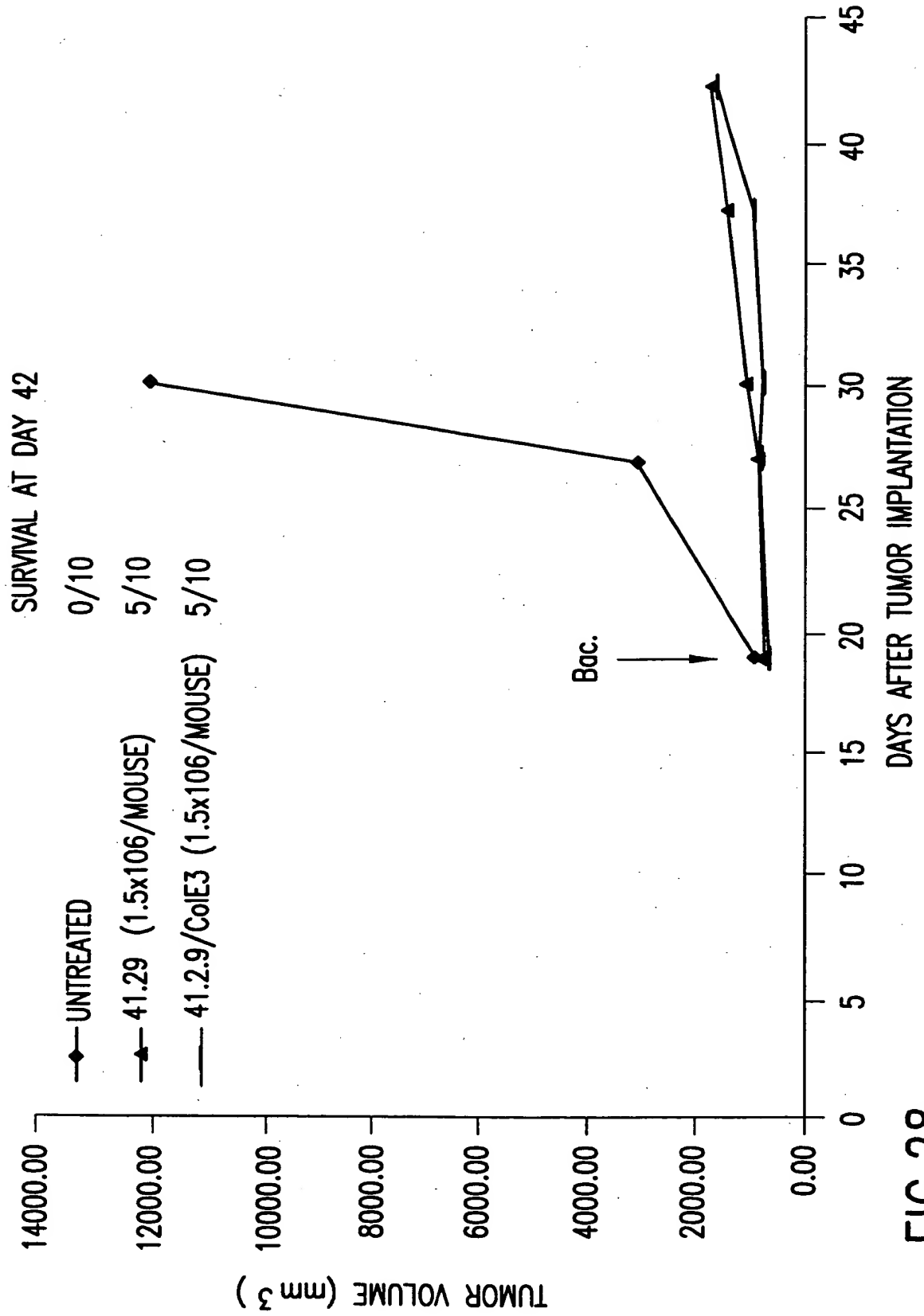


FIG.28

CYTOTOXICITY OF CNF1 IN 41.2.9 AGAINST
HeLa CELLS

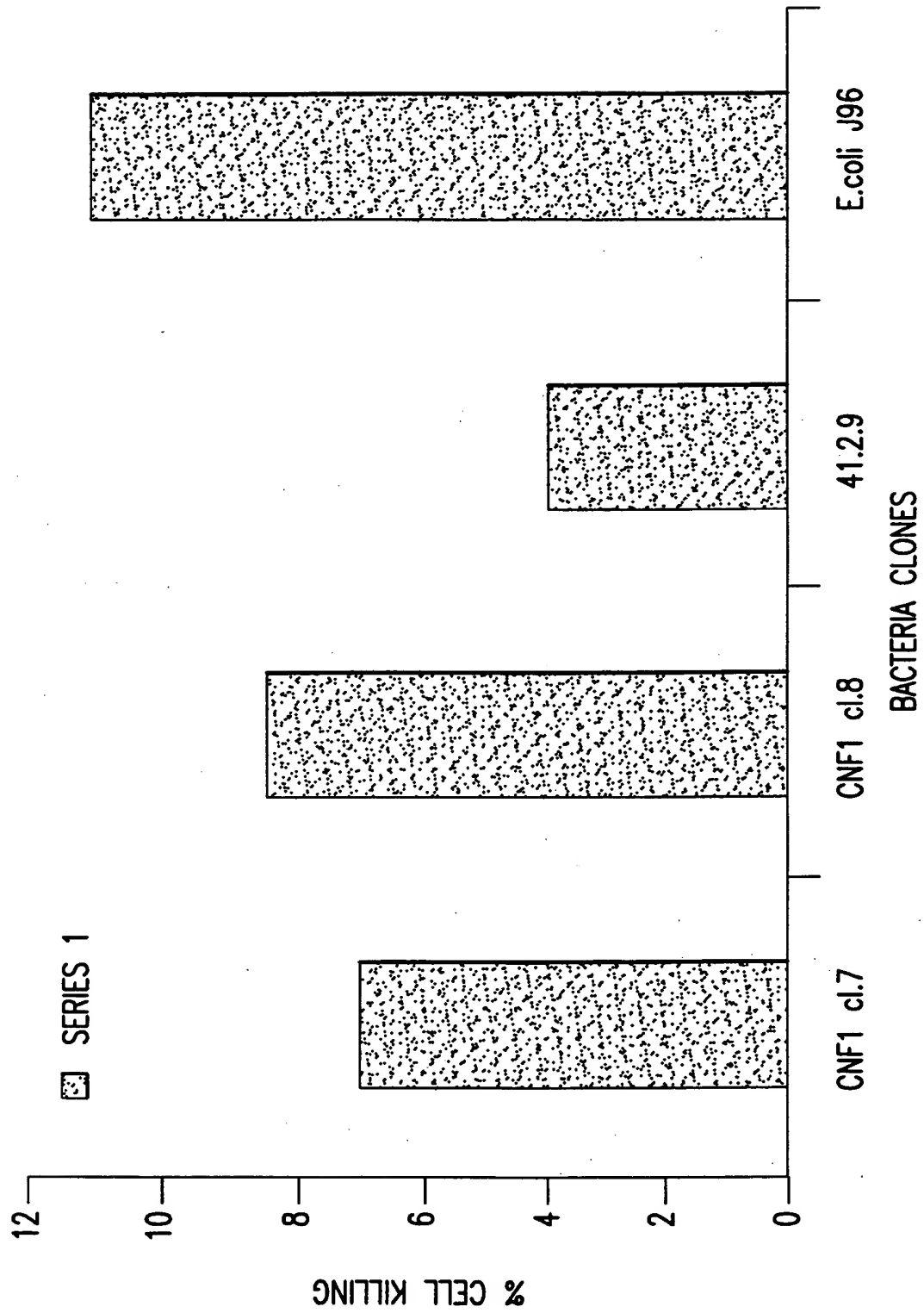
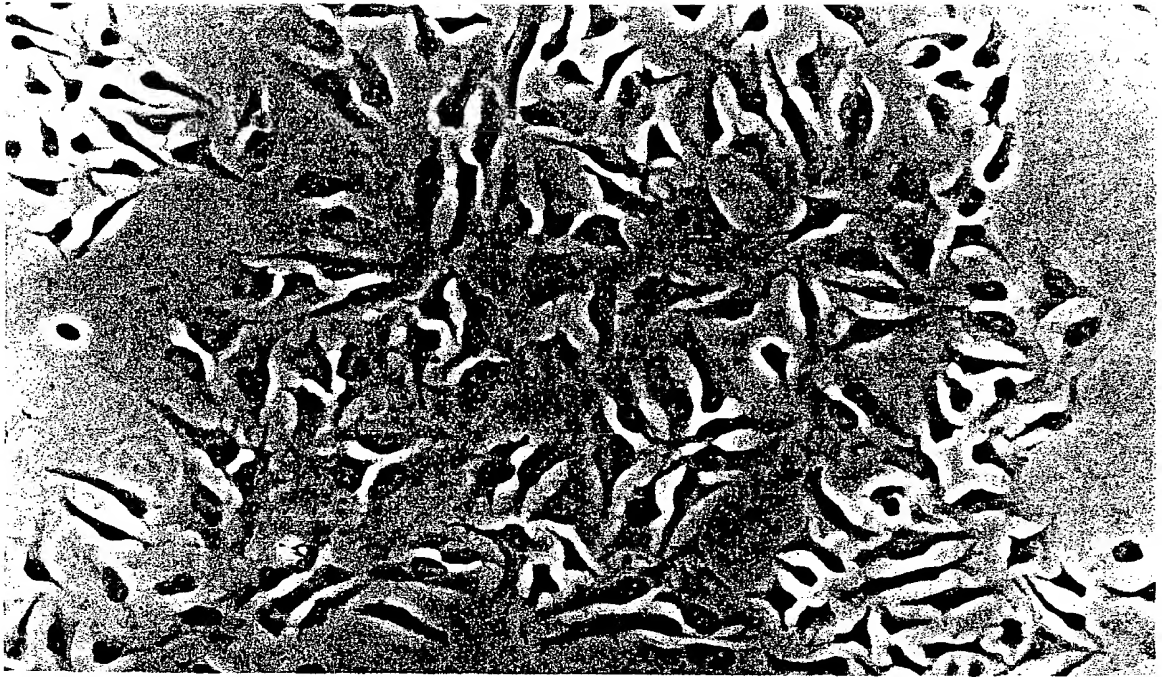
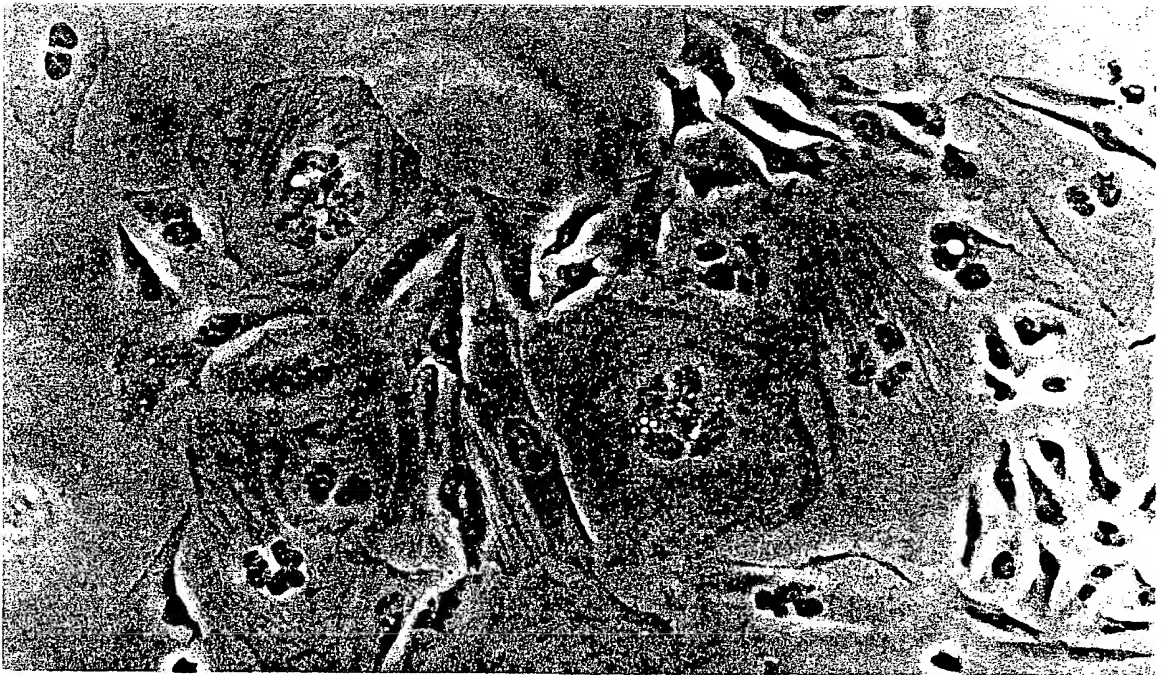


FIG.29



HeLa untreated (20x Obj.)

FIG.30A



HeLa CNF1 in DH5 cl.15 (20x Obj.)

FIG.30B

GATATCATTC	TGGCCTCTGA	CGTTGTGATG	GTCGCACGTG	GCGATCTGGG	CGTTGAAATC	GGCGATCCGG	70
AGCTGGTTGG	TATCCAGAAA	GCGCTGATTC	GCCGTGCGCG	TCAGCTAAAC	CGCGCAGTCA	TCACCGCAAC	140
GCAAATGATG	GAGTCGATGA	TCACCAACCC	GATGCCGACC	CGTGCGGAAG	TGATGGACGT	GGCGAACGCC	210
GTCCTGGATG	GCACGGATGC	GGTTATGCTG	TCTGCCGAAA	CCGCAGCCGG	TCAGTATCCT	TCTGAAACCG	280
TTGCCGCAAT	GGCGCGCGTC	TGCCTGGGCG	CAGAAAAAAT	CCCCAGCATC	AATGTGTCTA	AACACCGTCT	350
CGACGTGCAG	TTCGACAACG	TTGAAGAAGC	CATTGCCATG	TCTGCGATGT	ATGCGGCAAA	CCATCTGAAA	420
GGCGTTACCG	CGATCATCAC	CATGACGGAA	TCCGGTCGTA	CCGCGCTAAT	GACTTCCCGT	ATCAGCTCCG	490
GCCTGCCGAT	TTTCGCCATG	TCGCGCCATG	AACGCACGCT	GAACCTGACC	GCGCTCTATC	GCGGAGTAAC	560
GCCGGTG CAT	TTTGATAGCG	CGGCTGATGG	CGTTGTGCGG	GCACATGAAG	CTGTTAATCT	GCTGCGCGAT	630
AAAGGGTATC	TGGTTTCCGG	CGACCTGGTT	ATCGTGACCC	AGGGCGATGT	CATGAGCACC	GTCGGTTCAA	700
CCAATACCAC	GCGGCCGCC	CCTTAATTAA	CCCCGCATGC	GGGGGGCCAT	ATAGGCCGGG	GATTTAAATG	770
CAAACGTCCG	CCGAAACGCC	GACGCACTGT	GTTCCAGATA	TAGTCAAAAA	CCGGATTACC	CTGATTATGA	840
AACATCGCCG	CCATTTTTTG	CCCCTGAGAG	GCCATCAGCA	TGGCTGGAAT	GTCGACGCCC	CAGCCATGCG	910
GTACGAGAAA	AATGACTTTT	TCGTCGTTAC	GACGCATCTC	CTCGATAATC	TCCAGACCTT	CCCAGTCAAC	980
ACGCTGTTGA	ATTTTTTTTCG	GACCGCGCAT	CGCCAAC TCA	GCCATCATCG	CCATTGCCTG	TGGCGCGGTG	1050
GCGAACATCT	CATCGACAAT	CGCTTCGCGC	TCAGCTTCGC	TACGCTGCGG	AAAGCACAAC	GACAGATTAA	1120
TTAGCGCCCG	GCGACGAGAA	CTCTTCCCCA	GCCGTCCGGC	AAAACGCCCC	AGCGTCGCCA	GCAAAGGGTC	1190
GCGGAATGAT	GCCGGTGTTA	ATGCGATCCC	CGCCATTGCC	GCCGCGCCCA	ACCAGGCGCC	CCAATACTGT	1260
GGATAGCGAA	AGGATTTTTTC	GAATT CAGGG	ATATACTCAC	TATTATTTTT	TTTGGTTTCC	ATGCTTTTCC	1330
AGGGTCTGCT	GACGCGAAAA	GGAATTGTGA	ATAGTGTAGC	GACGTCTGCG	TCTCACACAA	AACAAAAAAG	1400
CCGGCACACA	TCGCGTACCG	GCTCTGTCAG	CGCATTTGTT	AATCGAAGCG	CAGTTGCGGC	AGAACCTCTT	1470
TCACCTGTGC	CAGGTATTCA	CGACGATCTG	ACCCCGTCAG	ACCTTCCGTG	CGCGGCAATT	TTGCTGTCAG	1530
AGGGTTAACG	GCTTGCTGGT	TGATC					1555

FIG.31

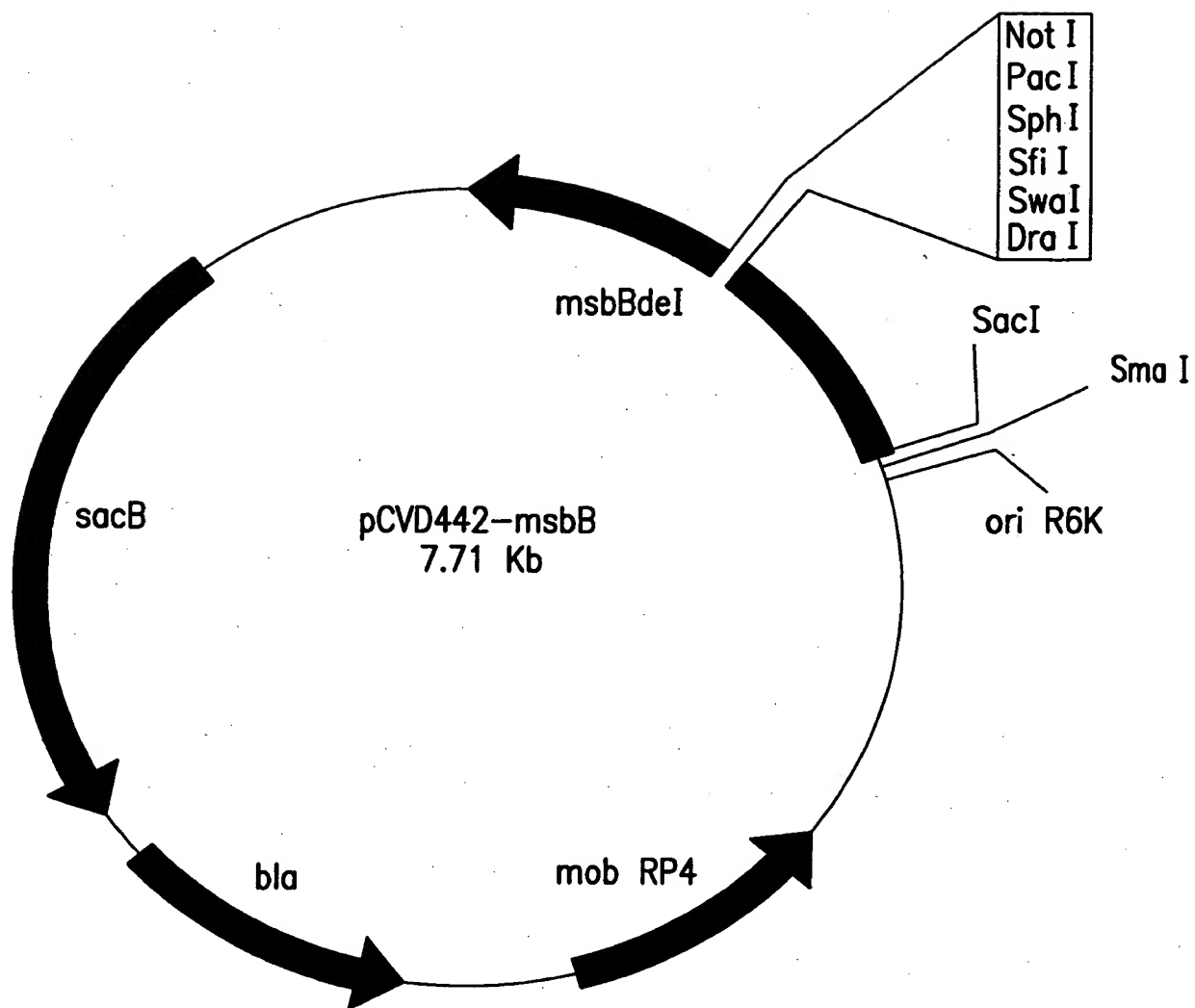


FIG.32

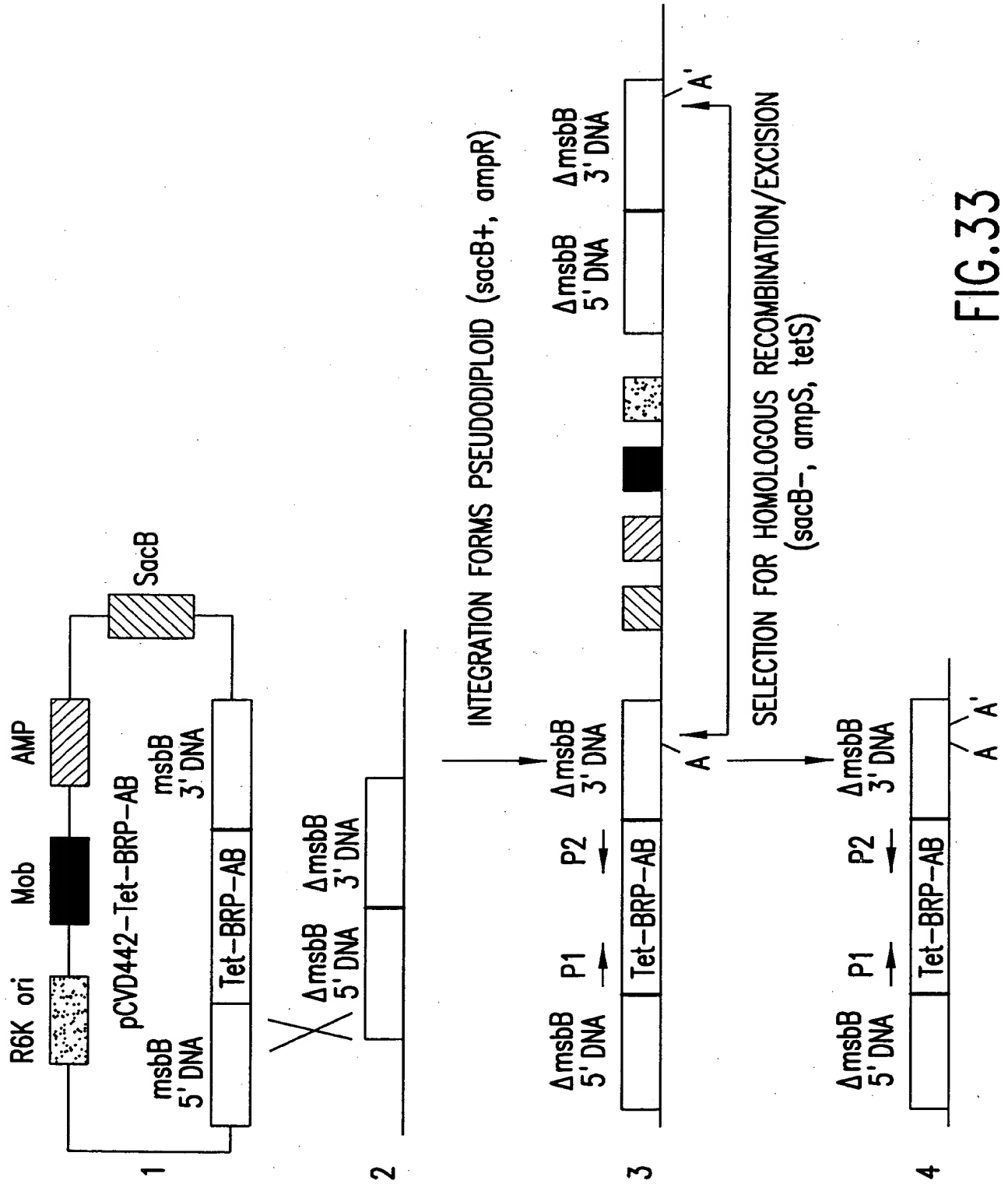


FIG.33

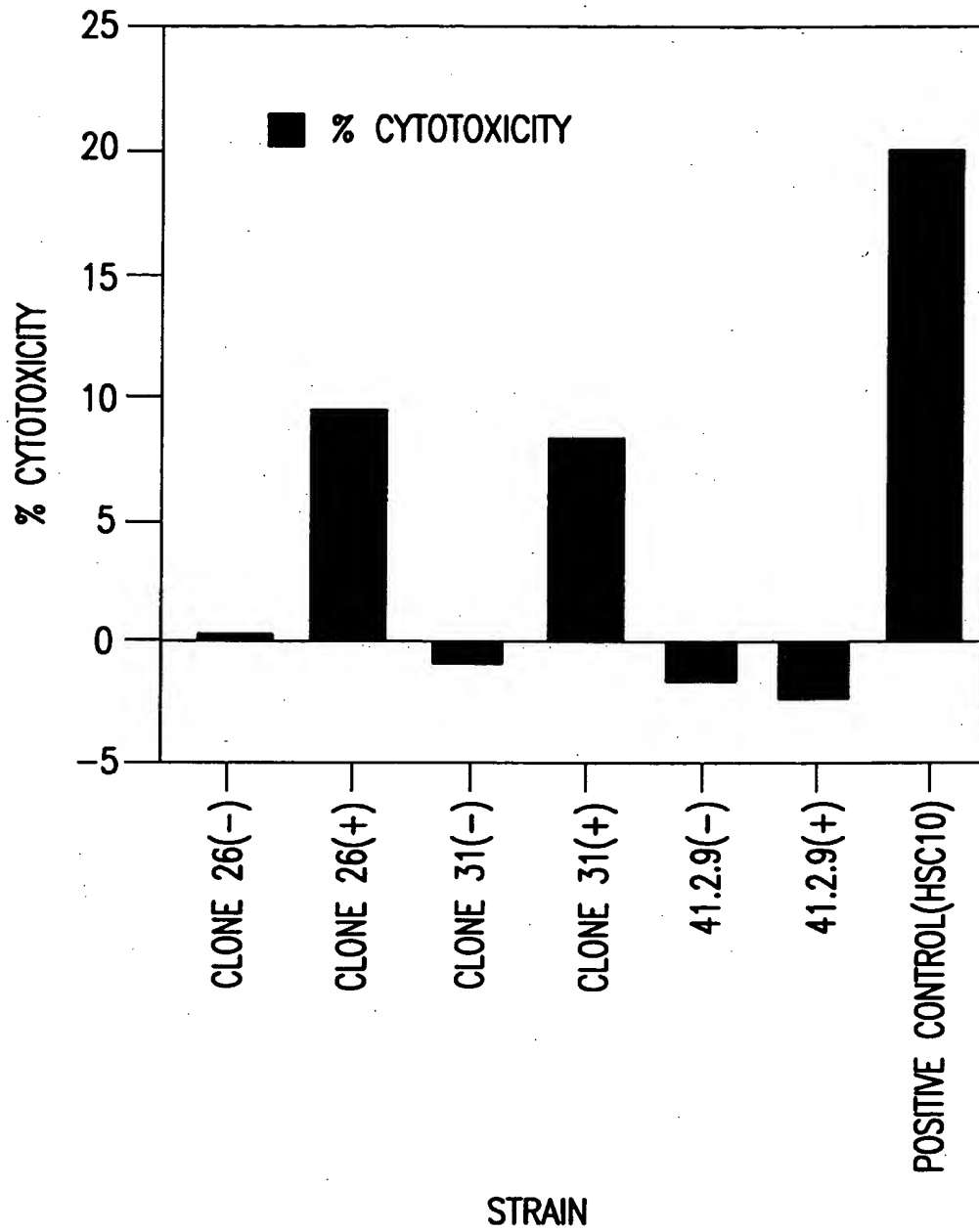


FIG.34

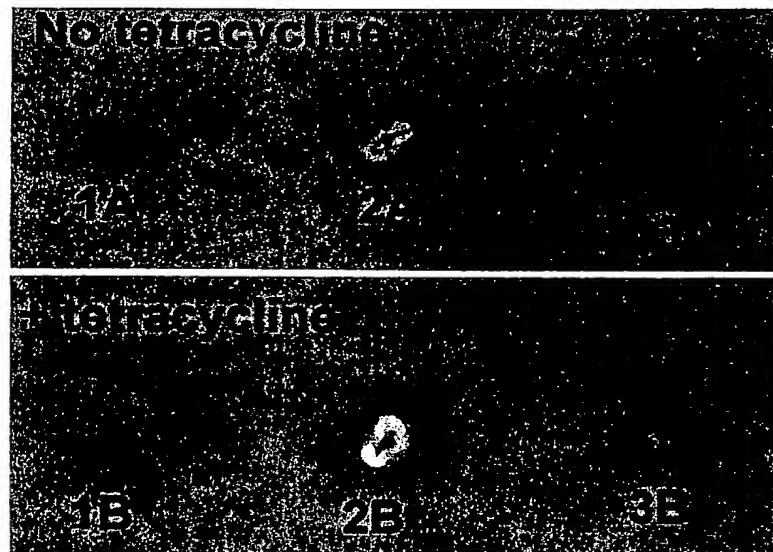


FIG.35



FIG. 36 A

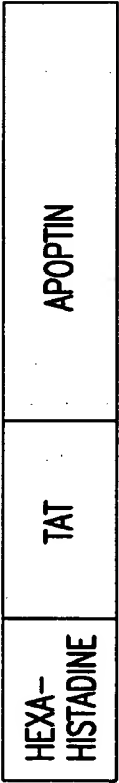


FIG. 36 B

SIGNAL SEQUENCE CLEAVAGE SITE



FIG. 36 C

FIG.36

Protein Sequence of 616-4 F

Length of 616-4 F: 551 bp; Listed from: 1 to: 551;

Translated from: 7 to: 409 (Entire region);

Genetic Code used: Universal; Wed, Aug 16, 2000 1:40 PM

```

Frame 1      M  A  Y  G  R  K  K  R  R  Q  R  R  R  M  N
              NAG ACC ATG GCT TAT GGC AGA AAA AAA AGA AGA CAG AGA AGA AGA ATC AAC
                  9          18          27          36          45

A  L  Q  E  D  T  P  P  G  P  S  T  V  F  R  P  P  T  S
GCG CTG CAG GAA GAT ACC CCG CCG GGC CCG TCC ACC GTG TTT CGC CCG CCG ACC TCC
      60          69          78          87          96          105

S  R  P  L  E  T  P  H  C  R  E  I  R  I  G  I  A  G  I
TCC CGC CCG CTG GAA ACC CCG CAT TGC CGC GAA ATC CGC ATC GGC ATC GCG GGC ATC
      117          126          135          144          153          162

T  I  T  L  S  L  C  G  C  A  N  A  R  A  P  T  L  R  S
ACC ATC ACC CTG TCC CTG TGC GGC TGC GCG AAC GCG CGC GCG CCG ACC CTG CGC TCC
      174          183          192          201          210          219

A  T  A  D  N  S  E  N  T  G  F  K  N  V  P  D  L  R  T
GCG ACC GCG GAT AAC TCC GAA AAC ACC GGC TTT AAA AAC GTC CCG GAT CTG CGC ACC
      231          240          249          258          267          276

D  Q  P  K  P  P  S  K  K  R  S  C  D  P  S  E  Y  R  V
GAT CAG CCG AAA CCG CCG TCC AAA AAA CGC TCC TGC GAT CCG TCC GAA TAT CGC GTC
      288          297          306          315          324          333

S  E  L  K  E  S  L  I  T  T  T  P  S  R  P  R  T  A  R
TCC GAA CTG AAA GAA TCC CTG ATC ACC ACC ACC CCG TCC CGC CCG CGC ACC GCC CGC
      345          354          363          372          381          390

R  C  I  R  L
CGC TGC ATC CGC CTC TGA AAG CTT GGC TGT TTT GGC GGA TGA GAG AAG ATT TTC AGC
      402          411          420          429          438          447

CTG ATA CAG ATT AAA TCA GAA CGC AGA AGC GGT CTG ATA AAA CAG AAT TTG CCT GGC
      459          468          477          486          495          504

GGC AGT AGC GCG GTG GTC CCA CCT GAC CCC ATG CCG AAC TCA GA
      516          525          534          543

```

FIG.37

Protein Sequence of TAP6H8 trcF

Length of TAP6H8 trcF: 751 bp; Listed from: 1 to: 444;

Translated from: 7 to: 427 (Entire region);

Genetic Code used: Universal; Mon, Aug 14, 2000 3:19 PM

Frame 1

M	A	H	H	H	H	H	H	Y	G	R	K	K	R	R				
NAG	ACC	ATG	GCT	CAT	CAC	CAT	CAC	CAT	TAT	GGC	CGC	AAA	AAA	CGC	CGT			
		9		18		27		36		45								
Q	R	R	R	M	N	A	L	Q	E	D	T	P	P	G	P	S	T	V
CAG	CGC	CGT	CGC	ATG	AAC	GCG	CTG	CAG	GAA	GAT	ACC	CCG	CCG	GGC	CCG	TCC	ACC	GTG
		60		69		78		87		96				105				
F	R	P	P	T	S	S	R	P	L	E	T	P	H	C	R	E	I	R
TTT	CGC	CCG	CCG	ACC	TCC	TCC	CGC	CCG	CTG	GAA	ACC	CCG	CAT	TGC	CGC	GAA	ATC	CGC
		117		126		135		144		153				162				
I	G	I	A	G	I	T	I	T	L	S	L	C	G	C	A	N	A	R
ATC	GGC	ATC	GCG	GGC	ATC	ACC	ATC	ACC	CTG	TCC	CTG	TGC	GGC	TGC	GCG	AAC	GCG	CGC
	174		183		192		201		210		219							
A	P	T	L	R	S	A	T	A	D	N	S	E	N	T	G	F	K	N
GCG	CCG	ACC	CTG	CGC	TCC	GCG	ACC	GCG	GAT	AAC	TCC	GAA	AAC	ACC	GGC	TTT	AAA	AAC
	231		240		249		258		267		276							
V	P	D	L	R	T	D	Q	P	K	P	P	S	K	K	R	S	C	D
GTC	CCG	GAT	CTG	CGC	ACC	GAT	CAG	CCG	AAA	CCG	CCG	TCC	AAA	AAA	CGC	TCC	TGC	GAT
	288		297		306		315		324		333							
P	S	E	Y	R	V	S	E	L	K	E	S	L	I	T	T	T	P	S
CCG	TCC	GAA	TAT	CGC	GTC	TCC	GAA	CTG	AAA	GAA	TCC	CTG	ATC	ACC	ACC	ACC	CCG	TCC
	345		354		363		372		381		390							
R	P	R	T	A	R	R	C	I	R	L	*							
CGC	CCG	CGC	ACC	GCC	CGC	CGC	TGC	ATC	CGC	CTC	TGA	AAG	CTT	GGC	TGT	TTT		
	402		411		420		429		438									

FIG.38

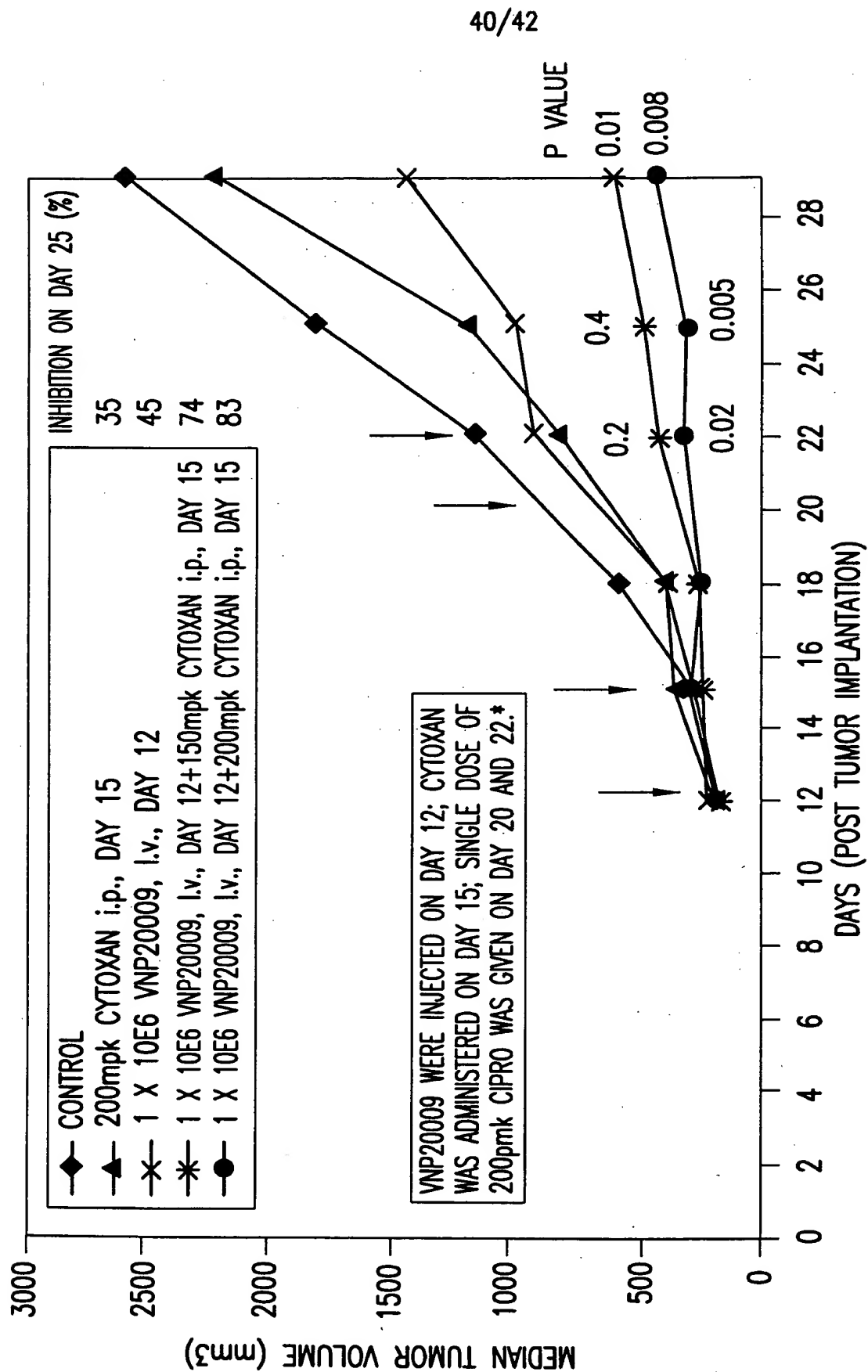


FIG.39

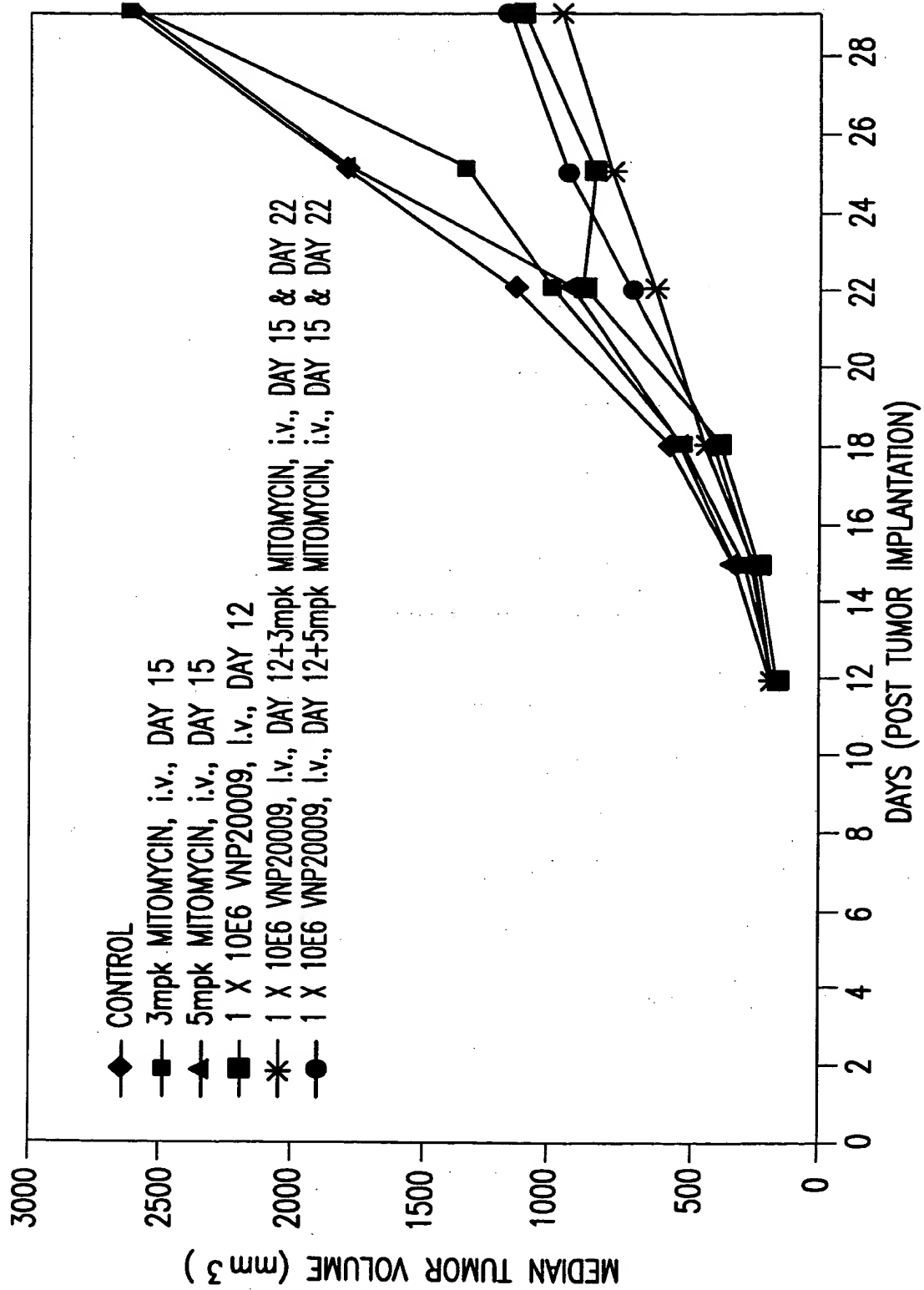
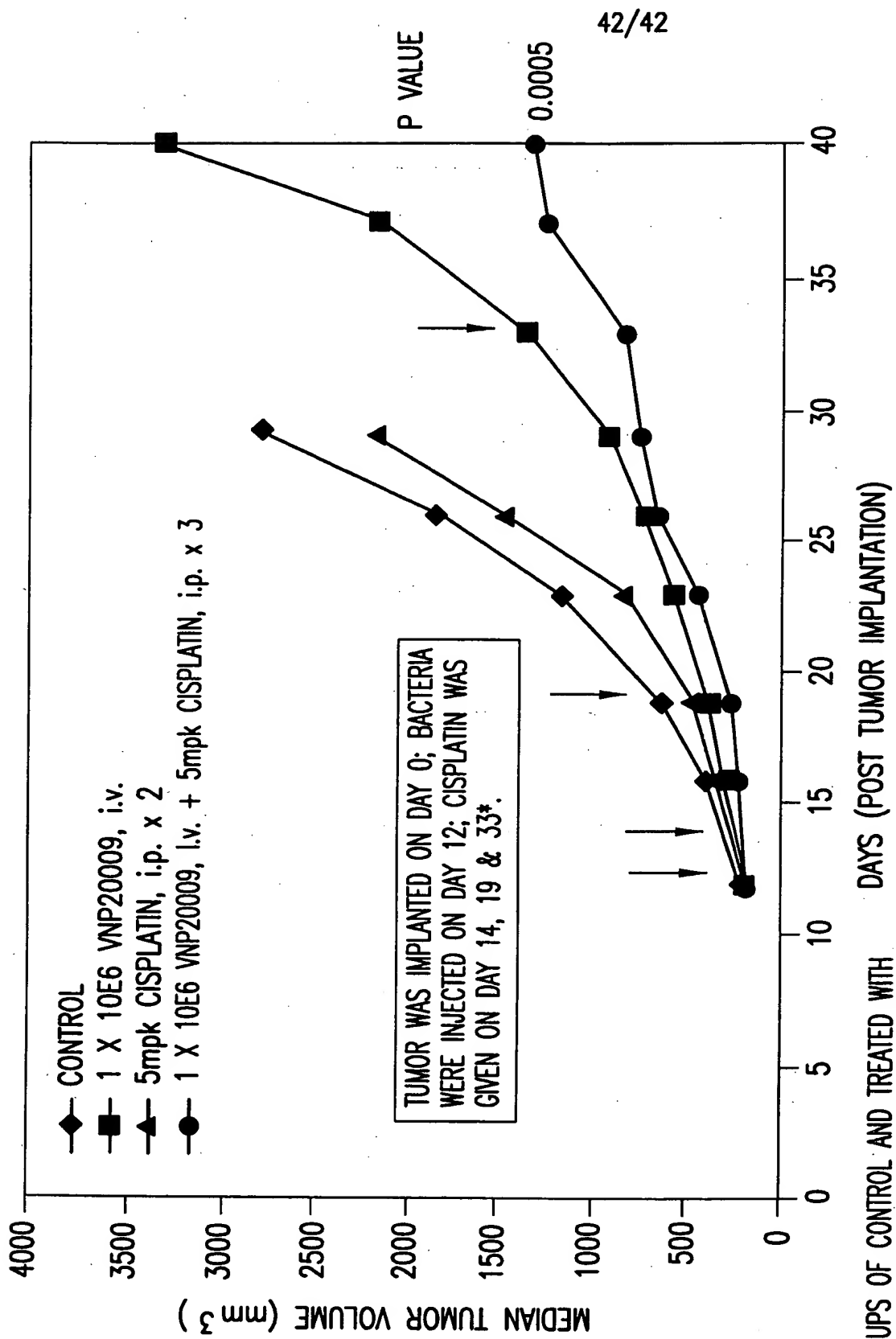


FIG.40



* GROUPS OF CONTROL AND TREATED WITH CISPLATIN ONLY WERE STOPPED ON DAY 29.

FIG.41

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